

**SITE INVESTIGATION REPORT - FOCUSED &
REMEDATION OBJECTIVES REPORT
Volume I of II**

**900 West 18th Street
Chicago, Illinois**

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Prepared For:

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Date Submitted:

August 27, 2001

Pioneer Project # 00868C

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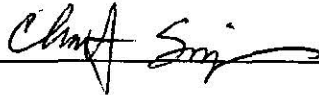
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REVIEWED MD

The following personnel have prepared and/or reviewed this report.

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Wayne Smith, P.G.
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Pioneer Project Number: 00868C

Date: August 27, 2001

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1.0 INTRODUCTION

1.1 Site Investigation Objectives

Pioneer Environmental, Inc. (Pioneer) was contracted by The Retirement Program of Farley Inc. to conduct subsurface investigation activities and provide Illinois Environmental Protection Agency (IEPA) reporting services for the subject site located at 900 West 18th Street, Chicago, Illinois (Figure 1; Appendix A). The purpose of the subsurface investigation was to fully characterize the recognized environmental conditions (RECs) previously identified at the subject site by Pioneer while conducting a Phase I Environmental Site Assessment (ESA). The subsurface investigation was performed in accordance with 35 Illinois Administrative Code (IAC) Section 740.430—Focused Site Investigation. This *Site Investigation Report—Focused & Remediation Objectives Report* is intended to summarize the subsurface investigations completed at the subject site to date. This work is being conducted to determine the degree of remedial action to comply with applicable regulations and obtain a No Further Remediation (NFR) Letter for the subject site pursuant to 35 IAC 740.430 and 415 ILCS 5/58.10.

1.2 Background Information

The subject site is comprised of two parcels. Parcel #1 is currently occupied by a partial three-story building with a partial basement (subject building; Figure 1). Parcel #2 is an asphalt-paved parking lot located directly east from Parcel #1 and across Peoria Street. The subject property is occupied by Tool and Engineering Company, a manufacturer of prototype automobile parts. Pioneer was previously contracted to perform a Phase I ESA at the site and subsequently issued a report dated December 7, 2000. The following RECs were noted during the Phase I ESA:

- REC-1: The historical presence of "white lead" and paint manufacturing facilities on Parcel #1 as early as 1886;
- REC-2: The long-term occupancy (circa 1888 to 1940s) of Parcel #1 by the National Lead Company, a lead reclamation facility;
- REC-3: The historical casting/foundry operations conducted on Parcel #1 (1940s), the reported explosion and fire that occurred in 1985, and the reported observations indicating that "black sands" may have been buried on-site;
- REC-4: The documented former presence of numerous UST systems that were removed from Parcel #1 during building demolition in 1985 and in 1986 and the documented presence of a former leaking gasoline UST on-site in 1984.
- REC-5: The permit records reviewed indicating that a "tank" (size and contents unknown) and a 5,000-gallon fuel oil UST were installed at Parcel #2 in 1943 and 1949, respectively, and the lack of specific information regarding their status.
- REC-6: The lack of specific information currently available regarding the subject property's CERCLIS-NFRAP listing.

Pioneer was subsequently contracted to conduct a subsurface investigation to address the RECs. The scope of the subsurface investigation included soil and groundwater sampling and analytical testing in each of the areas of concern and a geophysical survey of certain areas to investigate the potential presence of USTs in Parcel #2. To note, further information was reviewed with regard to REC-6. It was discovered that the CERCLIS-NFRAP listing was associated with the manufacturing processes of Southern White Lead Company and National Lead Industries. Thus REC-6 can be grouped with RECs 1 and 2.

1.3 Contaminants of Concern

Based on the above RECs and in accordance with 35 IAC Part 740, the following contaminants of concern (COCs) were specifically identified for the subject site:

- Volatile Organic Compounds (VOCs)
- Semi-Volatile Organic Compounds (SVOCs) including acid extractable compounds (acids), base/neutral extractable compounds (base/neutrals) and polynuclear aromatic hydrocarbons (PNAs)
- Priority Pollutant Total Metals
- Total Cyanide

2.0 SITE CHARACTERIZATION

2.1 Site Description

The subject site consists of two separate parcels, encompassing a total area of approximately 203,000 square feet. Parcel #1 encompasses approximately 153,000 square feet and is improved by a partial three-story commercial facility (with a partial basement (subject building). The remaining surface area of this parcel (far western portion) consists of concrete or asphalt-paved areas. Parcel #2 encompasses approximately 50,000 square feet and currently consists of an asphalt-paved parking lot and storage area for casting equipment related to manufacturing automobile parts.

The Property Index Number and Legal Description for the subject site are as follows:

Property Index Numbers: Parcel 1: 17-20-404-028-000

Parcel 2: 17-20-405-010-000

17-20-405-011-000

17-20-405-012-000

17-20-405-013-000

17-20-405-014-000

17-20-405-015-000

17-20-405-018-000

17-20-405-035-000

17-20-405-039-000

17-20-405-041-000

Legal Descriptions:

Parcel 1:

THAT PART OF THE WEST 1/2 OF LOT 14 IN THE ASSESSOR'S SUBDIVISION OF THE NORTH QUARTER OF THE SOUTHEAST 1/4 OF SECTION 20, TOWNSHIP 39 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS: COMENCING AT THE SOUTHEAST CORNER OF THE WEST 1/2 OF SAID LOT 14, THENCE RUNNING WEST ALONG THE NORTH LINE OF 18TH STREET, 143 FEET TO THE EAST LINE OF THE PREMISES HERETOFORE CONVEYED TO THE CHICAGO, BURLINGTON AND QUINCY RAILROAD; THENCE NORTH A DISTANCE OF 150 FEET ALONG SAID LINE; THENCE EAST ALONG A LINE 150 FEET NORTH OF AND PARALLEL 18TH STREET A DISTANCE OF 143 FEET TO THE EAST LINE OF SAID TRACT; THENCE SOUTH 150 FEET TO THE PLACE OF BEGINNING, IN COOK COUNTY, ILLINOIS.

AND

LOTS 1 TO 25 (BOTH INCLUSIVE) IN BARRETT'S SUBDIVISION OF THE EAST 1/2 OF LOT 14 IN ASSESSOR'S DIVISION OF THE NORTH QUARTER OF THE SOUTHWEST 1/4 OF SECTION 20, TOWNSHIP 39 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, TOGETHER WITH THE VACATED ALLEYS LYING SOUTH OF LOTS 1 TO 5, WEST OF LOTS 6 TO 29 AND NORTH OF LOTS 21 TO 25 IN BARRETT'S SUBDIVISION, AFORESAID, ALL IN COOK COUNTY, ILLINOIS.

AND

THE WEST 1/2 OF LOT 14 IN ASSESSOR'S SUBDIVISION OF THE NORTH QUARTER OF THE SOUTHEAST 1/4 OF SECTION 20 (EXCEPT THAT PART LYING SOUTH OF A LINE 150.00 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF 18TH STREET, EXCEPT THAT PART HERETOFORE CONVEYED TO BURLINGTON NORTHERN INC.) IN TOWNSHIP 39 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

Parcel 2:

THE SOUTH 166 FEET, 3 INCHES OF LOT 15 IN ASSESSOR'S SUBDIVISION OF THE NORTH QUARTER OF THE SOUTHEAST 1/4 OF SECTION 20, TOWNSHIP 39 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, AND THE SOUTH 1/2 OF LOT 16 IN ASSESSOR'S SUBDIVISION AFORESAID (EXCEPTING FROM SAID LOTS 15 AND 16 THAT PART TAKEN FOR 18TH STREET) ALL IN COOK COUNTY, ILLINOIS.

AND

LOT 45 (EXCEPT THE EAST 3 INCHES THEREOF AND EXCEPT THE SOUTH 33 FEET THEREOF) AND LOT 46 (EXCEPT THE SOUTH 33 FEET THEREOF) IN GEORGE ROTH'S SUBDIVISION OF BLOCK 17 OF ASSESSOR'S DIVISION OF THE NORTH QUARTER OF THE SOUTHEAST 1/4 OF SECTION 20, TOWNSHIP 39 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

AND

LOTS 2 AND 3 IN LOUIS HOEFKES SUBDIVISION OF THE NORTH 1/2 OF THE NORTH 1/2 OF THE SOUTH 1/2 OF BLOCK 15 AND LOT 28 (EXCEPT THE SOUTH 16.2 FEET THEREOF) IN BARRETT'S SUBDIVISION OF THE EAST 1/2 OF BLOCK 14, ALL IN ASSESSOR'S DIVISION OF THE NORTH QUARTER OF THE SOUTHEAST 1/4 OF SECTION 20, TOWNSHIP 39 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

AND

LOTS 26 AND 27 AND THE SOUTH 16.2 FEET OF LOT 28 IN BARRETT'S SUBDIVISION OF THE EAST 1/2 OF LOT 14 IN ASSESSOR'S DIVISION OF THE NORTH QUARTER OF THE SOUTHWEST 1/4 OF SECTION 20, TOWNSHIP 39 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

AND

LOT 1 (EXCEPT THAT PART LYING SOUTH OF THE NORTH 27 FEET 1/2 INCH THEREOF) IN LOUIS HOEFKE'S SUBDIVISION OF THE NORTH 1/2 OF THE NORTH 1/2 OF THE SOUTH 1/2 OF BLOCK 15 AND LOT 28 (EXCEPT THE SOUTH 16.2 FEET THEREOF) IN BARRETT'S SUBDIVISION OF THE EAST 1/2 BLOCK 14 ALL IN ASSESSOR'S DIVISION OF THE NORTH QUARTER OF THE SOUTHEAST 1/4 OF SECTION 20, TOWNSHIP 39 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

Underground utilities such as natural gas, telephone, water and sewer enter Parcel #1 from Peoria Street at the east property boundary. Electric service is provided via overhead lines.

The subject site is located in a mixed-use area in Chicago. According to the 1999 Chicago Zoning Ordinance, the subject site and some surrounding sites are located in a Restricted Manufacturing District (zoned "M1-2") and the remaining adjacent sites are located in a General Residence District (zoned "R-4"). The following provides a summary of the adjacent properties noted during the site inspection.

Parcel #1:

North: Parcel #1 is bounded by 16th Street to the north and farther north by an elevated railroad embankment.

East: Parcel #1 is bounded by Peoria Street to the east. Farther east is Parcel #2.

South: Parcel #1 is bounded by 18th Street to the south, beyond which are commercial/industrial and residential structures.

West: Parcel #1 is bounded by railroad tracks and associated easements to the west.

Parcel #2:

North: To the north of Parcel #2 is a single family home and farther north is a commercial building.

East: Parcel #2 is bounded by residential properties to the east. Farther east is Newberry St.

South: Parcel #2 is bounded by 18th Street to the south, beyond which are commercial/industrial and residential structures.

West: Parcel #2 is bounded by Peoria Street to the west. Farther west is Parcel #1.

2.2 Sampling Plan

Given the historical information reviewed and the findings of Pioneer's Phase I ESA, an initial sampling plan was developed and implemented. Based on the analytical results and field indications, a subsequent sampling plan was developed. Any "hot spots" of contamination identified during this subsurface investigation work were further delineated to the extent practicable. The following table provides a summary of the analyses completed on each soil and groundwater sample. Figure 2 depicts the location of each REC in relation to the soil borings and groundwater monitoring wells.

Table 2.1
Summary of Laboratory Analysis

LOCATION	VOCs	Acids	Base/ Neutrals	Carbazole	PNAs	BTEX	TPH	Priority Pollutant Total Metals	Total RCRA 8 Metals	Various Total Metals	SPLP Metals	TCLP Lead	pH
B-1 (0-3)	X								X	X-Zn			X
B-2 (2-4)	X	X	X		X			X		X-CN			X
B-3 (6-9)	X								X	X-Zn			X
B-4 (9-12)	X	X	X		X				X	X-Zn			X
B-5 (6-9)	X	X	X		X			X		X-CN			X
B-6 (3-6)	X	X	X		X				X	X-Zn		X	X
B-7 (6-9)	X	X	X		X				X	X-Zn			
B-8 (6-9)	X								X	X-Zn			X
B-9 (6-9)	X	X	X		X				X	X-Zn			X
B-10 (6-9)	X	X	X		X				X	X-Zn		X	X
B-11 (6-9)	X	X	X		X			X		X-CN			X
B-12 (3-6)								X		X-CN			X
B-12 (6-9)	X	X	X		X								
B-13 (3-6)					X	X			X				X
B-15 (9-12)					X	X							
B-16 (6-9)					X	X							
B-17 (0-3)	X	X	X		X				X				X
B-17 (6-9)					X				X		X-Se		X
B-18 (0-3)	X	X	X		X				X				X
B-18 (8-10)					X				X		X-Hg		X
B-19 (0-3)	X	X	X		X				X		X		X
B-19 (3-6)	X				X				X		X-Pb, Ag	X	X
B-20 (0-3)	X	X	X		X				X		X-Ba, Cd, Pb		X
B-20 (6-9)	X				X								
B-21 (0-3)	X	X	X		X				X				X
B-21 (6-9)	X				X		X		X				X
B-22 (0-3)	X	X	X		X				X				X
B-22 (6-9)	X				X								
B-23 (0-3)	X	X	X		X				X				X
B-23 (6-9)	X		X		X				X				X
B-24 (0-3)	X	X	X		X				X				X
B-24 (6-9)	X				X				X				X
B-25 (0-3)	X	X	X		X				X				X
B-25 (6-9)		X			X								
B-27 (0-3)	X	X	X		X				X				X
B-27 (6-8)	X				X				X				X
B-29 (0-3)	X	X	X		X				X				X
B-29 (6-9)	X				X		X		X				X
B-29 (14-15)	X												

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Table 2.1 (continued)
Summary of Laboratory Analysis

LOCATION	VOCs	Acids	Base/ Neutrals	Carbazole	PNAs	BTEX	TPH	Priority Pollutant Total Metals	Total RCRA 8 Metals	Various Total Metals	SPLP Metals	TCLP Lead	pH
B-30 (2-4)		X			X								
B-31 (4-6)		X			X								
B-32 (0-3)	X	X	X		X				X				X
B-32 (9-12)	X		X		X				X				X
B-33 (0-3)	X	X	X		X				X				X
B-33 (6-9)	X		X		X				X				X
B-34 (0-3)	X	X	X		X				X				X
B-34 (9-12)					X	X							
B-35 (0-3)	X	X	X		X				X				X
B-35 (6-9)					X	X							
B-36 (6-9)					X	X							
B-37 (6-9)	X												
B-38 (6-9)	X						X						
B-39 (3-6)			X										
B-40 (3-6)			X										
B-40 (6-9)			X										
B-41 (3-6)			X										
B-41 (6-9)			X										
B-42 (3-6)			X										
B-42 (6-9)			X										
B-43 (0-3)			X										
B-43 (3-6)			X										
B-44 (6-9)			X										
B-45 (6-9)			X										
B-46 (3-6)										X-Pb		X	
B-47 (0-3)												X	
B-47 (3-6)										X-Pb		X	
B-47 (6-9)												X	
B-48 (3-6)												X	
B-49 (3-6)												X	
B-50 (0-3)												X	
B-50 (3-6)												X	
B-50 (6-9)												X	
B-51 (0-3)												X	
B-51 (3-6)												X	
B-51 (6-9)												X	
B-52 (0-3)				X									
B-53 (0-3)				X									
B-54 (0-3)				X									
B-55 (0-3)				X									

Table 2.1 (continued)
Summary of Laboratory Analysis

LOCATION	VOCs	Acids	Base/ Neutrals	Carbazole	PNAs	BTEX	TPH	Priority Pollutant Total Metals	Total RCRA 8 Metals	Various Total Metals	SPLP Metals	TCLP Lead	pH
B-56 (3-6)												X	
B-57 (3-6)												X	
B-58 (3-6)												X	
B-60 (3-6)												X	
B-61 (3-6)												X	
B-62 (3-6)												X	
B-63 (3-6)												X	
B-64 (3-6)												X	
B-65 (3-6)												X	
B-66 (3-6)												X	
B-67 (3-6)												X	
MW-1	X	X	X		X			X					
MW-2	X	X	X		X			X					
MW-3	X	X	X		X			X					
MW-4	X	X	X		X			X					

Notes: Ag-Silver
 Ba-Barium
 Cd-Cadmium
 CN-Cyanide
 Hg-Mercury
 Pb-Lead
 Se-Selenium
 Zn-Zinc
 BTEX-Benzene, Toluene, Ethylbenzene, and total Xylenes
 TPH-Total Petroleum Hydrocarbons
 SPLP-Synthetic Precipitation Leaching Procedure
 TCLP-Toxicity Characteristic Leaching Procedure

2.3 GPR Survey/Exploratory Excavation

Due to the historical documentation which indicated that two USTs were previously installed in Parcel #2 (parking lot), and since there was no information as to where these tanks were located, Pioneer contracted STS Consultants, Ltd. (STS) to conduct a ground penetrating radar (GPR) and time-domain electromagnetic (TDEM) survey over Parcel #2 in an effort to locate any USTs that may still be present on the subject site.

On March 1, 2001, STS conducted the GPR/TDEM survey and the results revealed a single anomaly that, based on STS's professional opinion, appeared to be representative of a UST. Pioneer conducted focused probing in this area using a solid rod with a pointed tip and hit an obstruction at the depth a UST would typically be buried. Based on this data, exploratory excavation was conducted in this area on April 12, 2001. The exploratory excavation revealed that the object observed during the GPR/TDEM survey was a remnant foundation of a former building; thus, no evidence of current USTs were found during the subsurface investigation activities.

2.4 Soil Boring Advancement and Sampling

Between December 21, 2000, and June 20, 2001, Pioneer mobilized subsurface drilling equipment and OSHA-certified personnel to the subject site and advanced a total of 67 soil borings in specific areas throughout the site (Figure 1). The sampling plan was based on the RECs outlined in Pioneer's Phase I ESA, the layout of the subject site, and practical/spatial considerations.

Soil samples were obtained using a truck-mounted hydraulically driven sinker drill or a manual jackhammer-powered sinker drill, both of which were used to advance a stainless steel barrel-sampler lined with an acetate sleeve. The soil samples obtained from each interval were logged according to their predominant geological characteristics then divided into two representative portions. One portion of each sample was packed directly into pre-labeled, laboratory-provided

containers; designated for possible analysis; and stored in a cooler on ice to preserve the integrity of the sample. The remaining portion of each sample was sealed in a pre-labeled plastic bag and set aside to be field screened.

After a sufficient amount of time had elapsed to allow the soil samples sealed in the plastic bags to equilibrate to the surrounding air temperature, they were field screened using either a Photovac MicroFID™ IS-3000 flame ionization detector (FID) or a Photovac MicroTip™ photoionization detector (PID). These devices are sensitive to a variety of VOCs and SVOCs and provide a qualitative indication of the relative concentrations of these compounds in the soil samples by measuring the amount of VOCs/SVOCs trapped in the headspace of the bags.

Soil samples were selected for analysis based on the scope of work, FID/PID readings and judgment of the Project Engineer. The samples were stored in a cooler on ice in the field, shipped overnight to an independent laboratory under standard chain of custody procedures, and submitted for the analysis of one or more of the following: VOCs, BTEX, acids, base/neutrals PNAs, TPH, various total, SPLP, and TCLP metals, total organic carbon (TOC) and/or pH. All analytical tests were performed in accordance with accepted US EPA Test Methods. A complete protocol for subsurface soil sampling is provided in Appendix C and a photographic log is included in Appendix D.

2.5 Monitoring Well Installation and Sampling

On March 9, 2001, Pioneer installed four groundwater monitoring wells at the subject site to assess the overall groundwater condition. The construction of the wells, including the location of the slotted screen, was determined from the water levels observed during the drilling activities. In order to account for fluctuations in the water table, the top of the slotted screen was set a minimum of one foot above the estimated water level. The wells were constructed of 10 feet of 2-inch diameter PVC slotted screen set approximately 15 feet below surface grade and 5 feet of PVC riser. The wells were finished at grade with a protective flush-mount well box.

Following installation of the wells, an elevation survey was conducted to obtain relative top of well casing elevations at each well location. An arbitrary site datum of 100.00 feet was used as a benchmark to initiate the survey. The elevations were determined using standard surveying techniques and were measured to the nearest 0.01 feet.

On March 15, 2001, groundwater samples were collected from the four monitoring wells. Prior to sampling, Pioneer gauged each monitoring well using a sonic interface probe to measure the depth to groundwater and to determine the presence or absence of free product to an accuracy of 0.01 feet. No free product was encountered. The monitoring wells were purged of a minimum of three well volumes of groundwater using dedicated high-density polyethylene (HDPE) disposable bailers so that a true and representative sample of formation water could be collected for analysis. Samples were then collected from the wells using HDPE disposable bailers and placed in containers suitable for the respective analysis and the appropriate preservatives were added to the samples collected for VOCs and metals as required. The samples were stored in a cooler on ice in the field and shipped overnight under standard chain-of-custody procedures to an independent laboratory. A complete groundwater sampling protocol is included in Appendix C. The samples were submitted for analysis of VOCs, acids, base/neutrals, PNAs, and Priority Pollutant total metals. All analytical tests were performed in accordance with accepted US EPA Test Methods. To note, MW-4 was resampled for VOCs on April 2, 2001, as the sample vials were accidentally broken at the laboratory. Further, MW-2 and MW-4 were resampled for total lead on April 12, 2001, to confirm the analytical results, as the initial samples contained a high concentration of suspended solids, which may have contributed to falsely elevated analytical results for this inorganic contaminant.

Monitoring well completion logs are presented in Appendix E. Pioneer's complete protocol for monitoring well installation and groundwater sampling is provided in Appendix C. A photographic log is provided for review in Appendix D.

2.6 Site Geology

The soil borings were advanced through a surface finish of asphalt or concrete and associated crushed limestone base material. The crushed limestone base material was encountered to approximately 3 ft. below surface grade (BSG). Fill material consisting of silty sand, gravel, cinders and bricks was encountered below the base material to approximately 6 ft. BSG. The soil underlying the fill material consisted of fairly uniform silty sand from approximately 6-10 ft. BSG. The sand was fine-grained; exhibited black, gray, and tan color variations; and was relatively dense. The sand was followed by a silty clay layer encountered from approximately 10 ft. BSG to the boring terminus, up to 30 ft. BSG. The silty clay contained varying percentages of fine-grained sand, retained a firm to stiff consistency, and exhibited brown and gray color variations.

According to an Illinois State Geological Survey (ISGS) map dated 1984 and titled *Stack-Unit Mapping of Geological Materials in Illinois to a Depth of 15 Meters*, by Kempton, John P. et al., and the ISGS map dated 1970 and titled *Surficial Geology of the Chicago Region* by Willman and Lineback (Appendix A), the subject site is situated on sediments of the Carmi Member of the Equality Formation. The Carmi Member is described as containing largely quite-water lake sediments with dominantly well-bedded silt with thin beds of clay. In this region, the Equality Formation is discontinuous and generally less than 20 feet thick. The Equality Formation is underlain by the Wedron Formation, which is described as containing silty and clayey soil generally greater than 20 feet thick.

Plate 1 of the ISGS Circular dated 1984 and titled *Potential for Contamination of Shallow Aquifers in Illinois*, by Berg, Richard C. et al. (Appendix A), identifies that the subject site is located in an area designated as "E". An "E" classification is described as containing at least 50 feet of uniform, relatively impermeable silty or clayey glacial till with no evidence of interbedded sand or gravel. An "E" classification indicates that there is a minimal potential for shallow aquifer contamination.

The above descriptions are consistent with observations made of the silty clay layer encountered at the subject site which suggests these sediments are native soils and laterally extensive. A complete listing of the geological conditions encountered during drilling is provided in the soil boring logs in Appendix E.

2.7 Site Hydrogeology

Evidence of groundwater was observed at inconsistent depths during the subsurface investigation. Generally, groundwater was observed within the fill material or sandy soil above the native silty clay layer. The silty clay soils at 5-6 feet BSG did not exhibit significant moisture content. These subsurface conditions are common in this area and create discontinuous, perched zones of groundwater that are not capable of a sustainable yield and does not exhibit any significant flow dynamic.

The shallow groundwater wells were specifically constructed to intercept this perched groundwater and thus, the depth to groundwater was typically between 5-6 feet BSG. The groundwater elevations observed at the site suggest groundwater has a general easterly component of flow. It should be noted that seasonal and yearly fluctuations in the perched groundwater table could significantly influence flow directions in such hydrogeologic settings.

Table 2.2
Groundwater Monitoring Well Data

Groundwater Monitoring Well	Depth to Water* 3/15/01	Groundwater Elevation	Depth to Water* 4/12/01	Groundwater Elevation
MW-1	5.30	94.39	--	--
MW-2	6.32	94.81	6.25	94.88
MW-3	5.06	94.64	--	--
MW-4	3.20	95.30	2.53	95.97

Notes: Referenced to arbitrary site datum of 100.00 feet
 * Referenced to top of inner casing that extends approximately 3- 3.5 feet above surface grade.
 -- Indicates data not collected.

On March 15, 2001, a slug test was performed on MW-2 to gain an understanding of the hydrogeologic characteristics of the subsurface. The slug test involved removing a certain volume of water from the groundwater monitoring well and recording the change in water level with time as the well recharged. The data obtained from this procedure was subsequently used to calculate a site-specific hydraulic conductivity value, which is a measure of the rate at which groundwater flows through the soil.

Pioneer selected the Bouwer-Rice method for slug test data interpretation and employed this analysis using groundwater modeling software (AquiferTest, Version 2.56). The hydraulic conductivity was calculated to be 3.75×10^{-5} cm/sec. The slug test data is included in Appendix F for review.

Based on the site-specific geologic and hydrogeologic conditions, the groundwater at the site can be characterized as Class II groundwater. Therefore, in order to allow for the formal use of the soil and groundwater objectives specifically developed for Class II groundwater, a Class II groundwater demonstration follows. Pursuant to 35 IAC 620.220, groundwater can be classified as Class II if it *does not* meet the criteria for Class I groundwater. Class I groundwater is defined in 35 IAC 620.210 as groundwater located 10 ft. below the land surface *and* within:

- the minimum setback zone of a well which serves as a potable water supply and to the bottom of such well;

There are no potable water supply wells located within the City of Chicago. A groundwater ordinance prohibiting the installation and use of potable water wells was passed by the City of Chicago, on May 14, 1997. In addition, since the ordinance does not expressly prohibit the local government from installing and using potable water supply wells, the City of Chicago also entered into a Memorandum of Understanding (MOU) with the IEPA on July 3, 1997.

- unconsolidated sand, gravel, or sand and gravel which is 5 ft. or more in thickness and that contains 12 percent or less fines;

While sandy fill material was encountered beneath the site, there are no native unconsolidated sand, gravel, or sand and gravel units located at the site to a depth of at least 30 ft. BSG. As mentioned previously in Section 2.6, three separate ISGS references indicate the native soil in this area is comprised of silt and clay to at least 50 feet BSG.

- sandstone which is 10 ft. or more in thickness, or fractured carbonate which is 15 ft. or more in thickness; or

Pioneer did not encounter any sandstone or fractured carbonate to a depth of at least 30 ft. BSG during the site investigation.

- any geological material which is capable of *sustained* groundwater yield of 150 gallons a day or has a hydraulic conductivity of 1×10^{-4} cm/sec or greater.

As stated previously, an *in-situ* slug test was performed at the subject site and the hydraulic conductivity was calculated to be 3.75×10^{-5} cm/sec. Based on the field determined hydraulic conductivity for the subject property, Pioneer calculated the well yield pursuant to Section 620.210(a)(4)(A). The results of the well yield calculations indicated that, from a 1-foot diameter borehole and 15 foot saturated thickness, the native soil is capable of a *sustained* groundwater yield of 0.006 gallons per day (Appendix G).

Pioneer believes that the combined site-specific geological information and the City of Chicago's groundwater ordinance and MOU support the classification of the groundwater as Class II groundwater, thereby justifying the use of the Class II objectives for both soil and groundwater.

3.0 TIER 1 EVALUATION

3.1 Analytical Results Introduction

For purposes of Pioneer's assessment work and in accordance with standard industry practices, the soil and groundwater sample analytical results contained herein are compared to the most stringent soil remediation objectives (SROs) for residential property and the most stringent groundwater remediation objectives (GROs) for Class II groundwater. These objectives, also referred to as Tier 1 SROs and GROs, are found in 35 Illinois Administrative Code (IAC) Part 742 (Tiered Approach to Corrective Action Objectives—TACO). The Tier 1 SROs and GROs represent contaminant concentrations that are acceptable to the Illinois Environmental Protection Agency (IEPA). The Tier 1 SROs are based on a risk assessment that incorporates a conservative exposure scenario and yields values relative to three primary exposure pathways, namely ingestion, inhalation and the soil component of the groundwater ingestion exposure route (migration to groundwater). The migration to groundwater route is further divided into Class I, and Class II groundwater designations. The Tier 1 GROs are also divided into Class I and Class II groundwater designations.

Although these Tier 1 SROs and GROs may not represent final remediation objectives for this site, the analytical results are herein compared to the most stringent objectives for residential property and Class II groundwater, for initial screening purposes.

3.2 Tier 1 Evaluation--Soil

The analytical results of the soil samples analyzed for VOCs, BTEX, acids, base/neutrals, PNAs, and/or various total metals indicated that certain COCs were detected above the IEPA's Tier 1 SROs for various pathways. The following table (Table 3.1) provides a detailed breakdown of the particular pathway-specific SROs that were exceeded for residential property. The primary COCs detected at the site are PNAs, lead and carbazole.

Table 3.1
Contaminants of Concern Exceeding Tier 1 SROs

Sample Location/ Depth in feet	TACO Exposure Pathways		
	Migration to Class II Groundwater	Ingestion (Residential)	Inhalation (Residential)
B-2 (2-4)		Benzo(a)pyrene	
B-5 (6-9)		Benzo(a)pyrene Dibenzo(a,h)anthracene Beryllium	
B-6 (3-6)		Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenzo(a,h)anthracene Ideno(1,2,3-cd)pyrene Lead	
B-9 (6-9)	Cis 1,2-Dichloroethene Trichloroethene Carbazole Benzo(a)anthracene Benzo(b)fluoranthene Dibenzo(a,h)anthracene	Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Ideno(1,2,3-cd)pyrene Lead	
B-10 (6-9)	Tetrachloroethene	Benzo(a)anthracene Benzo(a)pyrene Dibenzo(a,h)anthracene Arsenic Lead	
B-11 (6-9)		Benzo(a)pyrene Dibenzo(a,h)anthracene Lead	
B-12 (6-9)		Lead	
B-13 (3-6)		Benzo(a)pyrene Dibenzo(a,h)anthracene	
B-15 (9-12)		Benzo(a)pyrene	
B-18 (8-10)		Lead	
B-19 (3-6)		Benzo(a)anthracene Benzo(a)pyrene Lead	
B-21 (0-3)		Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenzo(a,h)anthracene Ideno(1,2,3-cd)pyrene Lead	

Table 3.1 (continued)
 Contaminants of Concern Exceeding Tier 1 SROs

Sample Location/ Depth in feet	TACO Exposure Pathways		
	Migration to Class II Groundwater	Ingestion (Residential)	Inhalation (Residential)
B-27 (0-3)		Benzo(a)pyrene	
B-27 (6-8)		Benzo(a)pyrene Dibenzo(a,h)anthracene Lead	
B-30 (2-4)		Benzo(a)pyrene Dibenzo(a,h)anthracene	
B-32 (0-3)		Lead	
B-33 (0-3)		Benzo(a)pyrene Dibenzo(a,h)anthracene Lead	
B-34 (0-3)		Benzo(a)pyrene Dibenzo(a,h)anthracene Lead	
B-35 (0-3)	Carbazole	Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenzo(a,h)anthracene Ideno(1,2,3-cd)pyrene Lead	

It should be noted, pH-specific SROs for the migration to groundwater pathways are not provided for certain metals. Additionally, pH-specific SROs are only provided for pH values between 4.5 and 8 standard units (su). The majority of the soil samples exhibited pH values above 8 su. Thus, consistent with IEPA guidelines, the detected concentrations of these metals were also compared to the published State background concentrations as provided in Part 742, Appendix A, Table G. Upon this comparison, the total concentrations of several metals were detected above the State background levels in various soil samples. For further characterization, the soil samples exhibiting the highest total concentrations of these metals were re-analyzed utilizing the SPLP test method. Soil sample analytical results obtained using the SPLP method can be directly compared to the migration to groundwater Tier 1 SROs since these levels were developed specifically for use with this test method. The analytical results of the five soil samples re-analyzed for SPLP metals indicated that only one soil sample (B-19 [3-6]) exhibited concentrations above the Tier 1 SROs for Class II groundwater.

Due to the relatively high concentrations of total lead detected in several soil samples, the two samples exhibiting the highest concentrations of total lead from the initial round of sampling, B-6 (3-6) and B-10 (6-9), were re-analyzed for lead using the TCLP test method. Additionally, the soil sample exhibiting the highest level of total lead from the second sampling event, B-19 (3-6), was also submitted for analysis of lead by the TCLP test method. The TCLP test method is used to determine if the sample concentration exhibits the "characteristic" of toxicity for hazardous waste. The TCLP analytical results of these three samples were compared to the concentrations presented in 35 IAC 721.124(b)—Maximum Concentrations of Contaminants for the Toxicity Characteristic. The analytical results indicated that the levels of TCLP lead in B-6 (3-6) and B-10 (6-9) were below the regulatory limit of 5.0 mg/L (parts per million-ppm), and consequently, would not be considered "characteristically" hazardous. However, the analytical results of soil sample B-19 (3-6) indicated the TCLP lead concentration was .12 mg/l. Thus, additional subsurface investigation was conducted in this lead "hot spot" area in an attempt to delineate the characteristically hazardous soil. The following table summarizes the results of this additional work and Figure 3 depicts the estimated limits of the characteristically hazardous soil.

Site Investigation Report-Focused &
Remediation Objectives Report
900 W. 18th Street
Chicago, Illinois

Table 3.2
Soil Analytical Summary for Lead "Hot Spot"

Sample Location	Total Lead	SPLP Lead	TCLP Lead
B-6 (3-6)	1,610,000	--	136
B-18 (0-3)	4,160	--	--
B-18 (8-10)	442,000	--	--
B-19 (0-3)	86,300	848	--
B-19 (3-6)	4,030,000	--	12,000
B-46 (3-6)	1,770,000	--	80,000
B-47 (0-3)	--	--	89
B-47 (3-6)	3,240,000	--	37,600
B-47 (6-9)	--	--	<100
B-48 (3-6)	--	--	<100
B-49 (3-6)	--	--	103
B-50 (0-3)	--	--	<100
B-50 (3-6)	--	--	<50
B-50 (6-9)	--	--	<50
B-51 (0-3)	--	--	105
B-51 (3-6)	--	--	9,870
B-51 (6-9)	--	--	<100
B-56 (3-6)	--	--	167,000
B-56 (6-9)	--	--	<100
B-57 (3-6)	--	--	<100
B-58 (3-6)	--	--	2,240
B-60 (3-6)	--	--	10,600
B-60 (6-9)	--	--	<100
B-61 (3-6)	--	--	15,000
B-61 (6-9)	--	--	<100
B-62 (3-6)	--	--	278
B-63 (3-6)	--	--	3,430
B-64 (3-6)	--	--	31,300
B-65 (3-6)	--	--	3,780
B-66 (3-6)	--	--	653
B-67 (3-6)	--	--	16,600
Applicable SRO	400,000	100	5,000

The locations of the soil borings are illustrated on Figure 1 and the analytical results are summarized on Tables 1 through 10. The laboratory analytical reports are included in Appendix H.

3.3 Tier 1 Evaluation--Groundwater

The analytical results of the groundwater samples analyzed for VOCs, acid extractable compounds, base/neutral extractable compounds, PNAs, and Priority Pollutant total metals indicated that the lead detected in the samples from MW-2 and MW-4 was the only COC detected above the IEPA's Tier 1 GROs for Class II groundwater. As mentioned previously, MW-2 and MW-4 were resampled for total lead and extra steps were taken to reduce the amount

of suspended solids in the groundwater samples. The analytical results of this subsequent testing indicated that the level of total lead in the sample from MW-2 was below the Tier 1 GRO for Class II groundwater, however, the concentration in the sample from MW-4 still exceeded the Tier 1 GRO for Class II groundwater.

The locations of the monitoring wells are illustrated on Figure 1 and the analytical results are summarized on Tables 11 through 15. The laboratory analytical reports are included in Appendix H.

4.0 REMEDIATION OBJECTIVES DETERMINATION

The purpose of this remediation objectives determination is to establish the applicable guidelines and objectives at the subject site. While the subject site is currently being used for industrial purposes, much of the surrounding area currently is or is being developed as residential. Thus, so as not to limit the future use of this property, the Tier 1 standards for residential sites will be utilized. However, it is anticipated that pathway exclusion procedures and engineered barriers will be utilized to adequately manage the majority of subsurface impacts in-place. Given the site-specific conditions, the applicable SROs/GROs should be based on the Class II groundwater standards.

5.0 SUMMARY

Pioneer was contracted by The Retirement Program of Farley Inc. to conduct subsurface investigation activities and provide IEPA reporting services for the subject site. The purpose of the subsurface investigation was to fully characterize the RECs previously identified at the subject site by Pioneer while conducting a Phase I ESA. This work is being conducted to facilitate a prospective real estate transaction and ultimately an NFR Letter will be sought for the subject site pursuant to 35 IAC 740.430 and 415 ILCS 5/58.10.

Between December 21, 2000, and June 20, 2001, Pioneer advanced a total of 67 soil borings and installed 4 groundwater monitoring wells in specific areas throughout the site (Figure 1). The sampling plan was based on the RECs outlined in Pioneer's Phase I ESA, the layout of the subject site, and practical/spatial considerations.

The analytical results of the soil samples analyzed for VOCs, BTEX, acids, base/neutrals, PNAs, and/or various metals (total, SPLP, and TCLP) indicated that a variety of these COCs were detected above the IEPA's Tier 1 SROs for certain pathways. Further, levels of TCLP lead were detected at levels considered characteristically hazardous in certain soil samples collected from the east-central portion of the site.

The analytical results of the groundwater samples analyzed for VOCs, acid extractable compounds, base/neutral extractable compounds, PNAs, and Priority Pollutant total metals indicated that lead detected in MW-4 was the only COC above the Tier 1 GROs for Class II groundwater.

Based on the analytical results, the nature and extent of contamination has been adequately defined to the extent practicable given site constraints and practical considerations. The findings of the subsurface investigation indicate the following:

- The site has been impacted from past operations in various areas;
- The primary COCs are PNAs, carbazole and lead;
- The extent of impact is primarily limited to the upper 9 feet;
- There is no evidence of USTs currently located at the site and there is no evidence of contamination exceeding the applicable objectives associated with former USTs;
- There was no evidence of "black sands" buried on-site; and
- A "hot spot" of characteristically hazardous lead impacted soil was identified below the east-central portion of the existing building.

6.0 CONCLUSIONS

Based on the nature and extent of contamination detected at the subject site, Pioneer recommends a Remedial Action Plan (RAP) be completed for the site and submitted to the IEPA for approval. This RAP should include the following elements:

- A full evaluation of the selected technology that will be implemented to remediate the characteristically hazardous lead detected in the soil below the east-central portion of the building.
- A fate and transport evaluation for all COCs exceeding applicable Tier 1 SROs and GROs and a determination as to whether the impacted or potentially impacted media will be remediated or if the groundwater pathway will be eliminated pursuant to 742.320.
- An evaluation of all COCs that exceed the ingestion and inhalation pathway and a determination as to whether an engineered barrier will be used to eliminate the potential for exposure pursuant to 742.310 and 742.315.

7.0 CLOSING REMARKS

This report has been prepared for the sole use of the client identified in the report and can not be relied upon by other persons or entities without the joint permission of the client and Pioneer Environmental, Inc. (Pioneer). The observations and conclusions contained herein are limited by the scope and intent of the work mutually agreed upon by the client and Pioneer and the work actually performed. There are no warranties, implied or expressed, concerning the environmental integrity of areas and/or mediums not analytically tested.

8.0 REFERENCES

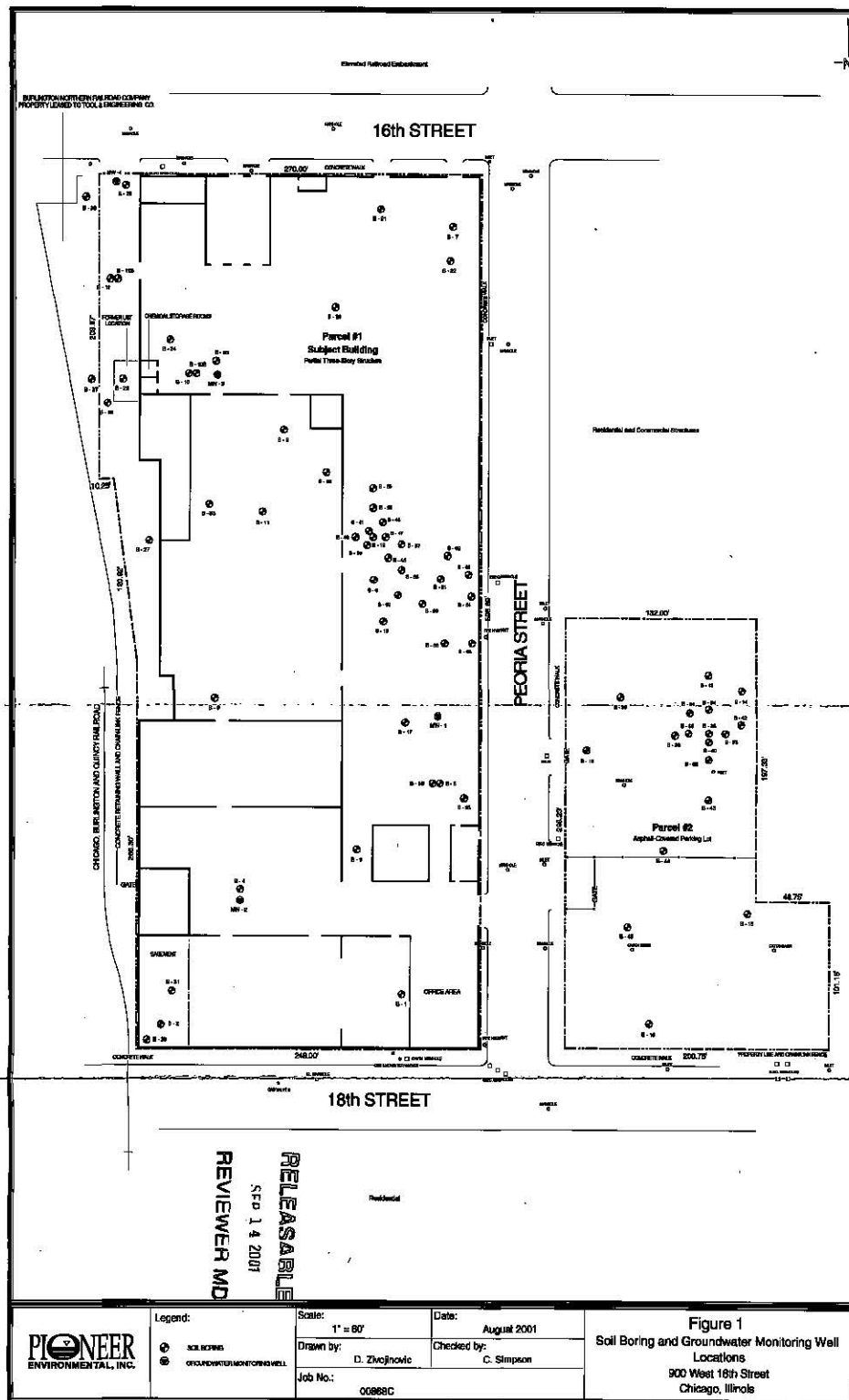
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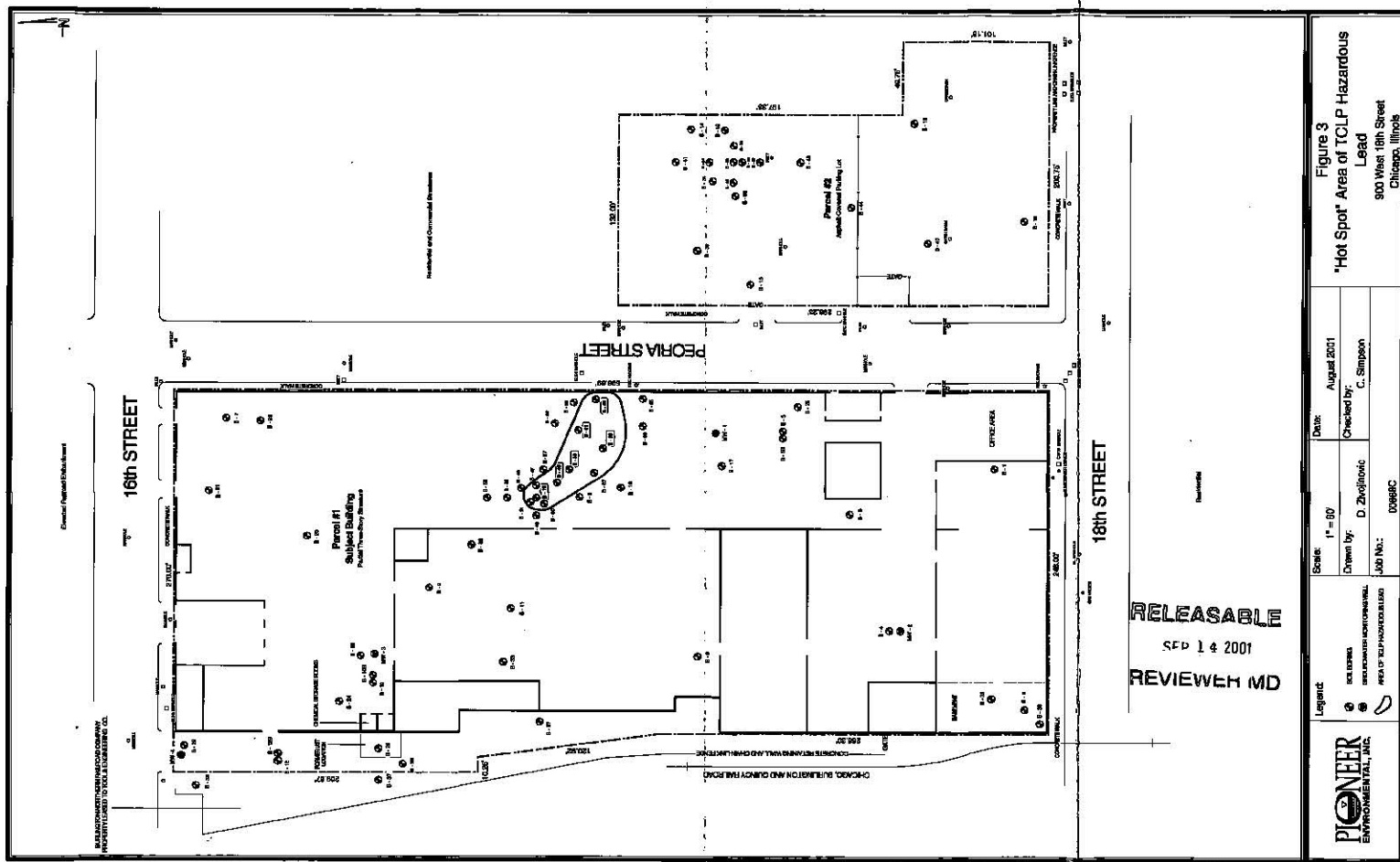
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Soil Sample Analytical Results: VOCs
900 W. 18th St. / Chicago, Illinois

ANALYTE	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use *																				Remediation to Groundwater					
	Risk Specific Values																				Ingestion		Inhalation			
	B-1 (0-1)	B-2 (2-4)	B-3 (5-9)	B-4 (10-12)	B-5 (13-15)	B-6 (16-18)	B-7 (19-21)	B-8 (22-24)	B-9 (25-27)	B-10 (28-30)	B-11 (31-33)	B-12 (34-36)	B-13 (37-39)	B-14 (40-42)	B-15 (43-45)	B-16 (46-48)	B-17 (49-51)	B-18 (52-54)	B-19 (55-57)	B-20 (58-60)	Class I	Class II	Class I	Class II		
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	150	<10	47	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	--	1,200,000	2,000	9,600	--	
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	--	--	--	--	--	
1,1,2-Trichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	310,000	1,800,000	20	300	--	
1,1-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	100	<10	14.7*	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	7,800,000	1,300,000	23,000	110,000	--	
1,1-Dichloroethane	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	700,000	1,500,000	60	300	--	
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	460	11,000	2	2	--	
1,2-Dibromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	7.5	170	0.4	4	--	
1,2-Dichloromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	7,000	400	20	100	--	
1,2-Dichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	9,000	15,000	30	150	--	
1,3-Dichloropropane (total)	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10.6	<12.4	<10	<11.6	<10.2	<10.4	<11.2	<10	4,000	100	4	20	--	
2-Butanone (MEK)	<250	<250	<250	<250	<250	<250	1,600	1,600	<250	2,300	1,500	2,000	<21	<25	<20	<23	<20	<21	<22	<20	--	--	--	--	--	
2-Heptanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<11	<12	<10	<12	<10	<10	<10	<11	<10	--	--	--	--	
4-Methyl-2-Pentanone (MIBK)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<11	<12	<10	<12	<10	<10	<10	<11	<10	--	--	--	--	
Acetone	<10	<10	68	<10	48	<10	53	61	190	59	70	180	<110	<130	<100	<130	<100	<100	<110	68.7*	7,000,000	100,000,000	16,000	16,000	--	
Benzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	22,000	800	30	170	--	
Bromodichloromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	10,000	3,000,000	600	600	--	
Bromoform	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	81,000	53,000	800	800	--	
Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<11	<12	<10	<12	<10	<10	<11	<10	110,000	10,000	280	1,200	--	
Butanol	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<980	<530	<630	<500	<580	<530	<530	<560	<500	7,800,000	10,000,000	17,000	17,000	--	
Carbon Disulfide	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	7,800,000	720,000	32,000	160,000	--	
Carbon Tetrachloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	5,000	300	70	330	--	
Chlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	1,600,000	130,000	1,000	6,500	--	
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<11	<12	<10	<12	<10	<10	<11	<10	--	--	--	--	--	
Chloroform	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	100,000	300	600	2,900	--	
Chloromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<11	<12	<10	<12	<10	<10	<11	<10	--	--	--	--	--	
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<11	<12	<10	<12	<10	<10	<10	<10	--	--	--	--	--	
cis 1,2-Dichloroethane	<10	<10	<10	<10	<10	13.7*	<10	<10	43,500/1	20.7*	67	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	8	780,000	1,200,000	400	1,100	--
Dibromochloromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	1,600,000	1,300,000	400	400	--	
Dibromomethane	<10	<10	<10	<10	<10	15	15	<10	<10	<10	<10	<10	<5.3	<5.2	<5	3.7*	<5.1	<5.2	<5.6	<5	13	7,800,000	400,000	13,000	19,000	--
Dichloromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	85,000	13,000	28	200	--	
Diethylamine	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	16,000,000	1,500,000	4,000	18,000	--	
Diethylamine	<10	<10	<10	<10	<10	30	<10	<10	<10	<10	<10	<10	<5.3	<5.2	<5	6	<5.1	<5.2	<5.6	<5	7	12,000	11,000	60	300	--
Toluene	<10	<10	<10	<10	<10	60	40	38	120	290	33	9,300	<5.3	<5.2	<5	9	<5.1	<5.2	<5.6	<5	10	16,000,000	650,000	12,000	29,000	--
trans 1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	610	<10	<10	<10	<5.3	<5.2	<5	<5.8	<5.1	<5.2	<5.6	<5	1,600,000	3,100,000	700	3,400	--	
Trichloroethane	<10	<10	<10	<10	<10	50	<10	<10	6,534/1	<10	<10	<10	<5.3	<5.2	<5	14	<5.1	<5.2	<5.6	<5	3	58,000	5,000	50	300	--
Vinyl Acetate	<53	<53	<53	<53	<53	<53	<53	<53	<53	<53	<53	<53	<11	<12	<10	<12	<10	<10	<11	<10	78,000,000	1,000,000	170,000	170,000	--	
Vinyl Chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<11	<12	<10	<12	<10	<10	<11	<10	300	30	10	70	--	
Xylenes (total)	<30	<30	<30	<30	<30	160	<30	<30	<30	1,100	<30	<30	<5.3	<5.2	<5	38	2.7*	<5.3	9	77	160,000,000	410,000	150,000	150,000	--	

Notes:
Results listed in mg/kg (parts per billion-ppb)
EPA test method SW 846, 8260/8215
C indicates not detected at stated detection limits
N indicates value not available
7* indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)
Shaded/Redd cell indicates concentration detected above most stringent Tier 1 SRO
(1) Pursuant to 35 IAC 142-Tiered Approach to Corrective Action Objectives

TABLE NO. 1 (page 2 of 2)
Soil Sample Analytical Results: VOCs
900 W. 18th St. / Chicago, Illinois

ANALYTE	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use																Migration to Groundwater			
	B-22 (B-2)	B-32 (B-3)	B-33 (B-3)	B-33 (B-3)	B-34 (B-3)	B-34 (B-3)	B-35 (B-3)	B-37 (B-3)	B-37 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)	B-39 (B-3)
1,1,1-Trichloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
1,1,2-Trichloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
1,1,2-Trichloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
1,1-Dichloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
1,2-Dibromo-3-chloropropane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
1,2-Dibromochloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
1,2-Dichloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
1,2-Dichloropropane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
1,1-Dichloroethene (total)	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8
2-Bromomethane (MEK)	<21	<20	<22	<20	<22	<20	<21	<28	<21	<37	<20	<26	<21	<20	<21	<27	<26	<24	<21	<21
2-Hexanone	<11	<10	<11	<10	<11	<10	<11	<14	<14	<17	<10	<13	<10	<10	<11	<10	<14	<13	<12	<12
4-Methyl-2-Pentanone (MIBK)	<11	<10	<11	<10	<11	<10	<11	<14	<14	<17	<10	<13	<10	<10	<11	<10	<14	<13	<12	<12
Acetone	<110	<100	<110	<100	<110	<100	<110	<140	<110	<170	<100	<130	<100	<100	<110	<100	<140	<110	<110	<110
Benzene	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Bromodichloromethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Bromoforn	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Bromomethane	<11	<10	<11	<10	<11	<10	<11	<14	<14	<17	<10	<13	<10	<10	<11	<10	<14	<13	<12	<12
Butanal	<540	<500	<540	<500	<540	<500	<540	<700	<520	<830	<500	<660	<520	<500	<540	<500	<680	<650	<590	<590
Carbon Disulfide	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Carbon Tetrachloride	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Chlorobenzene	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Chloroethane	<11	<10	<11	<10	<11	<10	<11	<14	<14	<17	<10	<13	<10	<10	<11	<10	<14	<13	<12	<12
Chloroform	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Chloromethane	<11	<10	<11	<10	<11	<10	<11	<14	<14	<17	<10	<13	<10	<10	<11	<10	<14	<13	<12	<12
cis 1,2-Dichloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Di-bromochloromethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Ethylbenzene	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Methylcyclohexane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Syrene	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Tetrachloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Toluene	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
trans 1,2-Dichloroethane	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Trichloroethene	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
Vinyl Acetate	<11	<10	<11	<10	<11	<10	<11	<14	<14	<17	<10	<13	<10	<10	<11	<10	<14	<13	<12	<12
Vinyl Chloride	<11	<10	<11	<10	<11	<10	<11	<14	<14	<17	<10	<13	<10	<10	<11	<10	<14	<13	<12	<12
Xylenes (total)	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4

Note:
Results listed in ug/kg (parts per billion-ppb)
EPA test method 8210/8215
"C" indicates not detected at stated detection limits
"N" indicates value not available
"J" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)
Shaded/boxed cell indicates concentration detected above most stringent Tier 1 SRO
(1) Pursuant to 35 IAC 743-Tiered Approach to Corrective Action Objectives

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TABLE NO. 2 (page 1 of 2)
Soil Sample Analytical Results: Acid Extractable Compounds
900 W. 18th St. / Chicago, Illinois

ANALYTE	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use (1)																Migration to Groundwater			
	Route Specific Values																Migration to Groundwater			
	B-2 (2-4)	B-4 (2-12)	B-5 (6-9)	B-6 (3-6)	B-7 (6-9)	B-9 (6-9)	B-10 (6-9)	B-11 (6-9)	B-12 (6-9)	B-17 (6-3)	B-18 (6-3)	B-19 (6-3)	B-20 (6-3)	B-21 (6-3)	B-22 (6-3)	B-23 (6-3)	Ingestion	Inhalation	Class I	Class II
2,4,5-Trichlorophenol	<100	<100	<100	<100	<2,500	<500	<500	<100	<100	<800	<800	<800	<800	<800	<800	<800	76,000,000	-	270,000	1,400,000
2,4,6-Trichlorophenol	<35	<35	<35	<35	<875	<175	<175	<35	<35	<330	<330	<330	<330	<330	<330	<330	58,000	200,000	200	770
2,4-Dichlorophenol	<40	<40	<40	<40	<1,000	<200	<200	<40	<40	<330	<330	<330	<330	<330	<330	<330	230,000	-	1,000	1,000
2,4-Dimethylphenol	<160	<160	<160	<160	<4,000	<800	<800	<160	<160	<330	<330	<330	<330	<330	<330	<330	1,600,000	-	9,000	9,000
2,4-Dinitrophenol	<49	<49	<49	<49	<2,450	<245	<245	<49	<49	<800	<800	<800	<800	<800	<800	<800	160,000	-	200	200
2-Chlorophenol	<33	<33	<33	<33	<825	<165	<165	<33	<33	<330	<330	<330	<330	<330	<330	<330	390,000	53,000,000	4,000	4,000
2-Methyl-4,6-dinitrophenol	<37	<37	<37	<37	<925	<185	<185	<37	<37	<330	<330	<330	<330	<330	<330	<330	3,900,000	-	15,000	15,000
2-Methylphenol (o-Cresol)	<57	<57	<57	<57	<1,425	<285	<285	<57	<57	<330	<330	<330	<330	<330	<330	<330	-	-	-	-
2-Nitrophenol	<48	<48	<48	<48	<1,200	<240	<240	<48	<48	<330	<330	<330	<330	<330	<330	<330	-	-	-	-
4-Chloro-3-methylphenol	<35	<35	<35	<35	<875	<175	<175	<35	<35	<330	<330	<330	<330	<330	<330	<330	-	-	-	-
M & P-Cresol	<63	<63	<63	<63	<1,575	350 "I"	<315	<63	<63	<330	<330	<330	<330	<330	<330	<330	-	-	-	-
4-Nitrophenol	<34	<34	<34	<34	<850	<170	<170	<34	<34	<800	<800	<800	<800	<800	<800	<800	-	-	-	-
Benzoic Acid	<130	<130	<130	<130	<3,250	<650	<650	<130	<130	<1,600	<1,600	<1,600	<1,600	<1,600	<1,600	<1,600	310,000,000	-	400,000	400,000
Pentachlorophenol	<34	<34	<34	<34	<850	<170	<170	<34	<34	<800	<800	<800	<800	<800	<800	<800	3,000	-	30	140
Phenol	48 "I"	<41	<41	<41	<1,025	<205	<205	<41	<41	<330	<330	<330	<330	<330	<330	<330	47,000,000	-	100,000	100,000

Notes:
Results listed in ug/kg (grams per billion)
EPA test method SW846, 8210
"c" indicates not detected at stated detection limits
"- " indicates value not available
"I" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)
Shaded/Bolded cell indicates concentration exceeds above most stringent Tier 1 SRO
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

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TABLE NO. 2 (page 2 of 2)
Soil Sample Analytical Results: Acid Extractable Compounds
900 W. 18th St. / Chicago, Illinois

ANALYTE	B-24 (0-3)	B-25 (0-3)	B-26 (0-3)	B-27 (0-3)	B-28 (0-3)	B-30 (2-4)	B-31 (2-4)	B-32 (0-3)	B-33 (0-3)	B-34 (0-3)	B-35 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)			
												Remedial Property Use: 2		Migration to Groundwater	
												Remedial Specific Values	Remedial Specific Values	Class I	Class II
												Investigation	Investigation		
2,4,5-Trichlorophenol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<16,000	76,000,000	—	270,000	1,400,000
2,4,6-Trichlorophenol	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	58,000	200,000	300	770
2,4-Dichlorophenol	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	230,000	—	1,000	1,000
2,4-Dimethylphenol	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	1,600,000	—	9,000	9,000
2,4-Dinitrophenol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<16,000	150,000	—	200	200
2-Chlorophenol	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	390,000	53,000,000	4,000	4,000
2-Methylphenol (o-Cresol)	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	3,900,000	—	15,000	15,000
3-Nitrophenol	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	—	—	—	—
M & P-Cresol	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	—	—	—	—
2-Methyl-4,6-dinitrophenol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<16,000	—	—	—	—
4-Chloro-3-methylphenol	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	—	—	—	—
4-Nitrophenol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<16,000	—	—	—	—
Benzoic Acid	<1,600	<1,600	<1,600	<1,600	<1,600	<1,600	<1,600	<1,600	<1,600	<1,600	<32,000	310,000,000	—	400,000	400,000
Perchlorophenol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<16,000	3,000	—	30	140
Phenol	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<6,600	47,000,000	—	100,000	100,000

Notes:
Results listed in ug/kg (parts per billion)
EPA test method SW846, E270
"c" indicates not detected at stated detection limits
"—" indicates value not available
"J" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)
Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 SRO
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

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TABLE NO. 3 (page 1 of 2)
Soil Sample Analytical Results: Base/Neutral Extractable Compounds
900 W. 18th St. / Chicago, Illinois

Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use																		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use			
ANALYTE	B-3 (2-4)	B-4 (4-12)	B-5 (6-9)	B-6 (3-6)	B-7 (6-9)	B-8 (6-9)	B-10 (6-9)	B-11 (6-9)	B-12 (6-9)	B-17 (6-9)	B-18 (6-9)	B-19 (6-9)	B-20 (6-9)	B-21 (6-9)	B-22 (6-9)	B-23 (6-9)	B-24 (6-9)	Route Specific Values		Migration to Groundwater	
																		Residential	Industrial	Class I	Class II
1,2,4-Trichlorobenzene	<35	<35	<35	<35	<875	<175	<175	<35	<35	<330	<330	<330	<330	<330	<330	<330	<330	780,000	3,200,000	5,000	53,000
1,2-Dichlorobenzene	<34	<34	<34	<34	<850	<170	<170	<34	<34	<330	<330	<330	<330	<330	<330	<330	<330	780,000	3,200,000	5,000	53,000
1,3-Dichlorobenzene	<33	<33	<33	<33	<825	<165	<165	<33	<33	<330	<330	<330	<330	<330	<330	<330	<330	780,000	3,200,000	5,000	53,000
1,4-Dichlorobenzene	<38	<38	<38	<38	<950	<190	<190	<38	<38	<330	<330	<330	<330	<330	<330	<330	<330	780,000	3,200,000	5,000	53,000
2,4-Dinitrobenzene	<45	<45	<45	<45	<1,125	<225	<225	<45	<45	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
2,6-Dinitrobenzene	<45	<45	<45	<45	<1,125	<225	<225	<45	<45	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
2-Chloronaphthalene	<41	<41	<41	<41	<1,025	<205	<205	<41	<41	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
2-Methylnaphthalene	<53	<53	<53	<53	<1,325	<265	<265	<53	<53	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
3-Nitroaniline	<60	<60	<60	<60	<1,500	<300	<300	<60	<60	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
3,4-Dichloroaniline	<260	<260	<260	<260	<13,000	<1,300	<1,300	<260	<260	<330	<330	<330	<330	<330	<330	<330	<330	1,000	—	7	33
3-Nitroaniline	<59	<59	<59	<59	<1,475	<295	<295	<59	<59	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
4-Bromophenylhydrazine	<47	<47	<47	<47	<1,175	<235	<235	<47	<47	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
4-Chloroaniline	<180	<180	<180	<180	<4,500	<900	<900	<180	<180	<330	<330	<330	<330	<330	<330	<330	<330	310,000	—	700	700
4-Chlorophenylhydrazine	<49	<49	<49	<49	<1,225	<245	<245	<49	<49	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
4-Nitroaniline	<85	<85	<85	<85	<2,125	<425	<425	<85	<85	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
4,4'-Dichlorodiphenylmethane	<43	<43	<43	<43	<1,075	<215	<215	<43	<43	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
4,4'-Dichlorodiphenylmethane	<36	<36	<36	<36	<900	<180	<180	<36	<36	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
4,4'-Dichlorodiphenylmethane	<82	<82	<82	<82	<2,050	<410	<410	<82	<82	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
4,4'-Dichlorodiphenylmethane	<46	<46	<46	<46	<1,150	<230	<230	<46	<46	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Carbazole	<51	<51	<51	<51	<1,275	<255	<255	<51	<51	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Di-n-butyl phthalate	<130	<130	<130	<130	<1,250	<250	<250	<130	<130	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Di-n-octyl phthalate	<51	<51	<51	<51	<1,275	<255	<255	<51	<51	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<40	<40	<40	<40	<1,000	<200	<200	<40	<40	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<42	<42	<42	<42	<1,050	<210	<210	<42	<42	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<45	<45	<45	<45	<1,125	<225	<225	<45	<45	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<43	<43	<43	<43	<1,075	<215	<215	<43	<43	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<33	<33	<33	<33	<825	<165	<165	<33	<33	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<87	<87	<87	<87	<2,175	<435	<435	<87	<87	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<32	<32	<32	<32	<800	<160	<160	<32	<32	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<34	<34	<34	<34	<850	<170	<170	<34	<34	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Di-n-propyl phthalate	<42	<42	<42	<42	<1,050	<210	<210	<42	<42	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Di-n-propyl phthalate	<43	<43	<43	<43	<1,075	<215	<215	<43	<43	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000
Dibenzofuran	<46	<46	<46	<46	<1,150	<230	<230	<46	<46	<330	<330	<330	<330	<330	<330	<330	<330	900	—	2,000	11,000

Notes:
Results listed in ug/kg (parts per billion)
EPA test method SW846, 8270
"—" indicates not detected at stated detection limits
"—" indicates value not available
"—" indicates analyte detected between limit of detection (LOD) and limit of quantification (LOQ)
Shaded/Highlighted cell indicates concentration detected above non stringent Tier 1 SRO
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

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TABLE NO. 3 (page 2 of 2)
Soil Sample Analytical Results: Base/Neutral Extractable Compounds
900 W. 18th St. / Chicago, Illinois

ANALYTE	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use ⁽¹⁾																Remediation Objectives			
	Result Specific Values																Ingestion		Inhalation	
	B-25 (0-3)	B-27 (0-3)	B-29 (0-3)	B-31 (0-3)	B-32 (0-12)	B-33 (0-3)	B-35 (0-3)	B-36 (0-3)	B-37 (0-3)	B-38 (0-3)	B-39 (0-3)	B-40 (0-3)	B-41 (0-3)	B-42 (0-3)	B-43 (0-3)	B-44 (0-3)	B-45 (0-3)	Chloride	Chloride	Chloride
1,2,4-Trichlorobenzene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	780,000	3,200,000	5,000	51,000
1,2-Dichlorobenzene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	7,000,000	560,000	17,000	43,000
1,3-Dichlorobenzene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
1,4-Dichlorobenzene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	2,000	11,000
2,4-Dichlorobenzene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	900	—	0.8	0.8
2,6-Dichlorobenzene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	900	—	0.7	0.7
2-Chloronaphthalene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
2-Methylnaphthalene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
2-Nitroaniline	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
3,3'-Dichlorobenzidine	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	1,000	—	7	33
3-Nitroaniline	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
4-Bromophenylphenyl ether	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
4-Chloroaniline	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
4-Chlorophenylphenyl ether	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	310,000	—	700	700
4-Nitroaniline	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
Bis(2-chloroethoxy)methane	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
Bis(2-chloroethoxy)ether	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
Bis(2-ethylhexyl)phthalate	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
Bis(2-ethylhexyl)phthalate	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	600	200	0.4	0.4
Carbazole	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	44,000	31,000,000	3,600,000	31,000,000
Di-n-butyl phthalate	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	16,000,000	930,000	930,000	930,000
Di-n-octyl phthalate	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	600	2,800
Dibenzofuran	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	7,800,000	1,300,000	2,300,000	2,300,000
Diethyl phthalate	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	1,600,000	10,000,000	10,000,000	10,000,000
Dimethyl phthalate	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	63,000,000	2,000,000	470,000	470,000
Hexachlorobenzene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	400	1,000	2,000	11,000
Hexachlorobutadiene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	—	—	—	—
Hexachlorocyclopentadiene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	550,000	10,000	400,000	2,200,000
Hexachlorocyclohexane	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	78,000	—	500	2,600
Isophorone	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	15,000,000	4,600,000	8,000	8,000
N-Nitroso-di-n-propylamine	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	90	—	0.05	0.05
N-Nitrosodiphenylamine	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	130,000	—	1,000	5,600
Nitrobenzene	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	39,000	92,000	100	100

Notes:
Remediation limits in ug/kg (parts per billion)
EPA test method SW846, 8270
"C" indicates not detected at stated detection limits
"—" indicates value not available
"J" indicates analyte detected between limit of detection (LOD) and limit of quantization (LOQ)
Shaded/Blended cell indicates concentration detected above most stringent Tier 1 SRO
(1) Pursuant to 35 IAC 142-Threshold Approach to Corrective Action Objectives

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TABLE NO. 4 (page 1 of 3)
Soil Sample Analytical Results: PNA Compounds
900 W. 18th St. / Chicago, Illinois

ANALYTE	Tier 1 Soil Remediation Objectives (Tier 1 SROs)																Residential Property Use ⁽¹⁾		
	Residential Property Use ⁽¹⁾																Residential Property Use ⁽¹⁾		
	Residential Property Use ⁽¹⁾																Residential Property Use ⁽¹⁾		
	B-2 (2-4)	B-4 (9-12)	B-5 (6-9)	B-6 (3-6)	B-7 (6-9)	B-9 (6-9)	B-10 (6-9)	B-11 (6-9)	B-12 (6-9)	B-13 (3-6)	B-15 (9-12)	B-16 (6-9)	B-17 (6-9)	B-17 (6-9)	B-18 (6-9)	Route Specific Values	Migration to Groundwater		
																Ingestion	Class I	Class II	
Naphthalene	<30	<30	180	320 "J"	<850	2,300	1,100	<30	<30	180	130	<30	<3.3	<3.3	13 "J"	3,100,000	84,000	420,000	
Acenaphthene	<21	<21	260	630	<1,000	17,000	370	25 "J"	<21	92	26 "J"	<21	<3.3	<3.3	<66	4,700,000	570,000	2,900,000	
Anthracene	<36	<36	180	8,900	<975	60,000	550 "J"	54 "J"	<36	360	56 "J"	<36	<3.3	<3.3	21 "J"	23,000,000	12,000,000	56,000,000	
Fluoranthene	160	<38	610	10,000	<825	160,000	2,400	220	<38	1,600	210	<38	<3.3	<3.3	170	3,100,000	4,300,000	21,000,000	
Pyrene	<47	<47	380	1,100	<950	37,000	720 "J"	<47	<47	160	<47	<47	<3.3	<3.3	140	3,100,000	560,000	2,800,000	
Pyrene	190	<45	390	6,900	<1,175	270,000	1,200	240	<45	2,400	210	<45	<3.3	<3.3	1.9 "J"	2,300,000	4,200,000	21,000,000	
CARCINOGENIC PNAH																			
Benzo(a)anthracene	100	<23	230	4,700	<900	86,000	910	130	<23	820	94	<23	<3.3	<3.3	200	900	2,000	8,000	
Benzo(a)pyrene	110 "J"	<34	180	4,600	<1,000	78,000	770	120	<34	840	110	<34	<3.3	<3.3	30 "J"	90	8,000	82,000	
Benzo(b)fluoranthene	80 "J"	<46	160	4,600	<1,500	42,000	810	100 "J"	<46	370	150 "J"	<46	<3.3	<3.3	19 "J"	900	5,000	25,000	
Benzo(k)fluoranthene	100 "J"	<48	180	4,000	<2,275	50,000	800	120 "J"	<48	350	110 "J"	<48	0.33 "J"	<3.3	25 "J"	9,000	49,000	250,000	
Chrysene	100 "J"	<42	250	3,800	<1,000	94,000	1,100	130 "J"	<42	1,000	120 "J"	<42	1.1 "J"	<3.3	17 "J"	88,000	160,000	800,000	
Dibenz(a,h)anthracene	89	<18	150	2,100	<2,000	23,000	560	100	<18	2,200	90	<18	<3.3	<3.3	30 "J"	90	2,000	7,600	
Indeno(1,2,3-cd)pyrene	88	<18	160	2,240	<700	58,000	580	84	<18	290	120	<18	<3.3	<3.3	<66	900	14,000	69,000	
NON-CARCINOGENIC PNAH																			
Acenaphthylene	<24	<24	<24	<120	<1,025	12,000	190 "J"	42 "J"	<24	110	<24	<24	<3.3	<3.3	<66	-	-	-	
Benzo(g,h,i)perylene	86 "J"	<29	150	2,200	<2,000	74,000	560	73 "J"	<29	300	89 "J"	<29	<3.3	<3.3	10 "J"	-	-	-	
Phenanthrene	90 "J"	<35	1,000	8,900	<1,175	280,000	2,800	170	<35	1,400	270	<35	<3.3	<3.3	430	-	-	-	

Notes:
Results listed in ug/kg (parts per billion)
EPA test method SW846, 8110
"J" indicates not detected at stated detection limits
"-/-" indicates value not available
"J" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)
Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 SRO
(1) Pursuant to rule 35 IAC 743-Tiered Approach to Corrective Action Objectives

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TABLE NO. 4 (page 2 of 3)
Soil Sample Analytical Results: PNA Compounds
900 W. 18th St. / Chicago, Illinois

ANALYTE	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use ⁽¹⁾															
	Route Specific Values															
	Migration to Groundwater															
	B-18 (6-10)	B-19 (6-5)	B-19 (3-6)	B-20 (6-5)	B-20 (6-9)	B-21 (6-3)	B-21 (6-9)	B-22 (6-3)	B-22 (6-9)	B-23 (6-3)	B-23 (6-9)	B-24 (6-3)	B-24 (6-9)	B-25 (6-3)	B-25 (6-9)	
Naphthalene	<3	<3	14"J"	<3	4.5	<1300	<33	<3	<82	<3	<3	<3	89	9.7	<3	3,100,000
Acenaphthene	<3	0.53"J"	210	<3	1.5"J"	970"J"	45	<3	8.6"J"	0.37"J"	<3	<3	38"J"	5.2	9.8	4,700,000
Anthracene	<3	2"J"	310	0.51"J"	9.9	3,000	24"J"	<3	2.3"J"	1.3"J"	<3	<3	37"J"	6.1	<3	23,000,000
Fluoranthene	<3	7.9	1,900	5.1	5.9	13,000	81	2.5"J"	2.9"J"	12	<3	<3	130	38	3.3"J"	3,100,000
Fluorene	<3	0.73	330	<3	1.3"J"	1,900	<3	<3	17"J"	<3	<3	<3	140	16	1.5"J"	3,100,000
Pyrene	0.27"J"	6.7	1,300	4.2	4.1	8,900	86	2.4"J"	<82	12	<3	<3	78"J"	35	2.3"J"	2,300,000
CARCINOGENIC PNA																
Benzo(a)anthracene	0.58"J"	14	918"J"	2.6"J"	2.2"J"	5,700	530"J"	1.8"J"	59"J"	7.1	1.9"J"	<3	79"J"	22"J"	2.1"J"	900
Benzo(a)pyrene	<3	5.3	570"J"	2.4"J"	1.3"J"	5,400	54	1.7"J"	<82	7.8	1.2"J"	<3	23"J"	13	2.2"J"	90
Benzo(b)fluoranthene	0.31"J"	7.6	550"J"	2.8"J"	4.7	5,100	87	1.9"J"	<82	8.9	21	<3	50"J"	15	58	900
Benzo(k)fluoranthene	0.44"J"	4.3	300	1.4"J"	0.85"J"	2,100	16"J"	1.1"J"	5"J"	3.7	<3	0.36"J"	22"J"	6.7	1.3"J"	9,000
Chrysene	1.1"J"	4.3	1,900	6.2	1.6"J"	9,200	340"J"	3.4	27"J"	13	7.7	0.65"J"	29"J"	38	2.6"J"	88,000
Dibenz(a,h)anthracene	<3	0.34"J"	<1,300	1.1"J"	1.2"J"	1,800	32	0.68"J"	<82	9.6	17	0.67"J"	<82	5	8.4	90
Indeno(1,2,3-cd)pyrene	<3	5.8	560	3.1"J"	0.68"J"	5,100	<3	1.4"J"	<82	6.7	<3	<3	<82	11	<3	900
NON-CARCINOGENIC PNA																
Acenaphthylene	<3	<3	15"J"	<3	<3	<1300	50	<3	<82	4.4	<3	<3	21"J"	3.2"J"	<3	--
Benzo(g,h,i)perylene	0.33"J"	21	500	2.7"J"	0.94"J"	2,500	<3	2.3"J"	<82	9.3	<3	0.31"J"	<82	14	<3	--
Phenanthrene	<3	3.4	1400	2.4"J"	3.7	13,000	590"J"	1.4	22"J"	6	<3	<3	150	41	0.83"J"	--

Notes:
Results listed in ug/kg (parts per billion)
EPA test method SW846, 8310
"C" indicates not detected at stated detection limits
"--" indicates value not available
"J" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)
Shaded/boxed cell indicates concentration detected above more stringent Tier 1 SRO
(1) Pursuant to rule 35 IAC 742-Tiered Approach to Corrective Action Objectives

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TABLE NO. 4 (page 3 of 3)
Soil Sample Analytical Results: PNA Compounds
900 W. 18th St. / Chicago, Illinois

ANALYTE	Tier 1 Soil Remediation Objectives (Tier 1 SROs)															Residential Property Use ⁽¹⁾		
																Migration to Groundwater		
	B-27 (0-3)	B-27 (6-8)	B-28 (0-3)	B-29 (6-9)	B-30 (2-4)	B-31 (4-6)	B-32 (0-3)	B-32 (9-12)	B-33 (0-3)	B-33 (6-9)	B-34 (0-3)	B-34 (9-12)	B-35 (0-3)	B-35 (6-9)	B-36 (6-9)	Rate Specific Values	Class I	Class II
Naphthalene	<66	210	0.57"J	29"J	4.3"J	<3	<3	<3	2.6"J	<3	31"J	<3	63	<3	<3	3,100,000	84,000	420,000
Acenaphthene	8.8"J	240	0.38"J	46"J	16"J	<3	<3	<3	9	<3	140	<3	380	<3	<3	4,700,000	570,000	2,900,000
Anthracene	14"J	320	0.47"J	33"J	50	<3	<3	<3	22"J	<3	50	<3	980	0.41"J	<3	23,000,000	12,000,000	59,000,000
Fluoranthene	200	1,800	5.3	<66	300	<3	0.83"J	<3	280	<3	<660	1.1"J	5,300	2.7"J	<3	3,100,000	4,300,000	21,000,000
Pyrene	<66	390	0.34"J	220	6.5"J	<3	<3	<3	4.2"J	<3	160	<3	320"J	<3	<3	3,100,000	560,000	2,800,000
Pyrene	170	1,300"J	4.1	<66	280	0.29"J	1.1"J	0.27"J	240	<3	<660	1.1"J	5,000	2.5"J	<3	2,300,000	4,200,000	21,000,000
CARCINOGENIC PNA																		
Benzo(a)anthracene	96	710	3.4"J	460	220	1.7"J	1.1"J	0.61"J	150	<3	760	1.4"J	2,200	1.8"J	<3	900	2,000	8,000
Benzo(a)pyrene	100	600	3.1"J	<66	230	<3	1"J	<3	160	<3	410	0.54"J	1,100	1.3"J	<3	90	8,000	82,000
Benzo(b)fluoranthene	130	610"J	4	33"J	240	0.68	0.96"J	3.9	210	18	630	67	1,400	3.6	1	900	5,000	25,000
Benzo(k)fluoranthene	49"J	320	2"J	7.5"J	100	0.5"J	0.64"J	0.39"J	61	0.29"J	310	0.9"J	930	0.86"J	0.3	9,000	49,000	250,000
Chrysene	160	1,300	4.9"J	29"J	390	0.51"J	1.3"J	0.91"J	270	<3	1300	1.7"J	3,700	3.1"J	0.58	88,000	160,000	800,000
Dibenz(a,h)anthracene	44"J	230	2.4"J	6.8"J	310	<3	0.79"J	2"J	170	1"J	250	<3	6,700	0.51"J	<3	90	2,000	7,600
Indeno(1,2,3-cd)pyrene	82	440	3.3"J	<66	140	<3	1.1"J	<3	130	<3	290	0.49"J	850	0.61"J	<3	900	14,000	69,000
NON-CARCINOGENIC PNA																		
Acenaphthylene	<66	3.8"J	1"J	<66	<3	<3	<3	<3	<3	<3	9.6"J	<3	8.5"J	<3	<3	--	--	--
Benzo(g,h,i)perylene	130	570	6.7	<66	130	<3	4	<3	170	<3	360	3.4	940	1.2"J	<3	--	--	--
Phenanthrene	79	1,700	2.5	200	94	0.4"J	0.93"J	<3	150	<3	1300	<3	4,200	1.2"J	<3	--	--	--

Notes:
Results listed in ug/kg (parts per billion)
EPA test method SW846, 8310
"C" indicates not detected at stated detection limits
"J" indicates value not available
"J" indicates analysis detected between limit of detection (LOD) and limit of quantitation (LOQ)
Shaded/boxed cell indicates concentration detected above most stringent Tier 1 SRO
(1) Pursuant to rule 35 IAC 742-Tiered Approach to Corrective Action Objectives

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TABLE NO. 5
Soil Sample Analytical Results: BTEX
900 W. 18th St. / Chicago, Illinois

							Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use ⁽¹⁾			
							Route Specific Values		Soil Component of Groundwater Ingestion Exposure Route	
ANALYTE	B-13 (3-6)	B-15 (9-12)	B-16 (6-9)	B-34 (9-12)	B-35 (6-9)	B-36 (6-9)	Ingestion	Inhalation	Class I	Class II
Benzene	< 10	< 10	< 10	< 5	< 5.6	< 6	22,000	800	30	170
Toluene	40	25	< 10	< 5	< 5.6	< 6	16,000,000	650,000	12,000	29,000
Ethylbenzene	< 10	< 10	< 10	< 5	< 5.6	< 6	7,800,000	400,000	13,000	19,000
Xylenes (total)	< 30	< 30	< 30	< 5	< 5.6	< 6	160,000,000	410,000	150,000	150,000

Notes:

Results listed in ug/kg (parts per billion)

EPA test method SW846, 8260/5035

"<" indicates not detected at stated detection limits

"J" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)

Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 SRO

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

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TABLE NO. 6 (page 1 of 2)
Soil Sample Analytical Results: RCRA 8 Total Metals Plus Zinc - pH>8
900 W. 18th St., Chicago, Illinois

ANALYTE	B-3 (6-9)	B-4 (5-12)	B-4 (3-6)	B-7 (6-9)	B-8 (6-9)	B-9 (6-9)	B-10 (6-9)	B-17 (6-9)	B-17 (6-9)	B-18 (0-3)	B-18 (8-10)	B-19 (6-3)	B-19 (5-6)	B-20 (0-3)	B-21 (6-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use (1)		
																Route Specific Values		pH > 8.0
																Injection	Inhalation	Background (2)
pH	8.1	8.2	11.2	NA	11.0	9.3	10.7	9.6	8.1	9.3	8.8	9.2	9.7	8.7	11			
Arsenic	5,900	5,200	5,300	11,000	1,900 *†	4,300	18,000	1,226	3,480	1,790	4,370	1,950	7,390	1,970	12,100	13,000 ⁽³⁾	750,000	13,000
Barium	14,000	37,000	88,000	36,000	14,000	44,000	59,000	1,730	37,600	2,000	81,700	5,120	62,600	4,720	487,000	5,500,000	690,000,000	110,000
Cadmium	< 1,200	< 1,200	2,100	< 1,200	< 1,200	< 1,200	8,000	<500	<500	<500	<500	<500	<500	<500	1,390	78,000	1,800,000	600
Chromium	6,800	9,200	6,600	7,200	2,600	15,000	13,000	<1000	9,300	<1000	4,380	<1000	10,600	<1000	6,330	390,000	270,000	16,200
Copper	< 6,000	< 6,000	1,610,000	253,000	142,000	940,000	3,250,800	1,060	9,240	4,160	242,000	86,300	713,000	27,300	3,070,000	400,000	--	36,000
Mercury	< 30	< 30	1,315	51	191	309	839	<33	<33	<33	540	108	600	<33	240	23,000	10,000	60
Selenium	< 2,500	< 2,500	< 2,500	< 2,500	< 2,500	< 2,500	< 2,500	<500	780	<500	686	<500	536	<500	281	390,000	--	480
Silver	< 3,000	< 3,000	< 3,000	< 3,000	< 15,000	< 3,000	< 3,000	<1000	<1000	<1000	<1000	<1000	1,150	<1000	1,090	390,000	--	530
Zinc	156,000	39,000	1,355,000	28,000	32,000	44,000	376,000	--	--	--	--	--	--	--	--	23,000,000	--	95,000

Notes:
 Results listed in ug/kg (parts per billion)
 c indicates not detected at stated detection limits
 -- indicates not analyzed or value not available
 † indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)
 Shaded/Redlined cell indicates concentration detected above most stringent Tier 1 SRO
 (1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives
 (2) Background concentration identified in Appendix A, Table G
 (3) No pH-specific values are available for this compound or pH level, therefore the background concentration as identified in 35 IAC 742, Appendix A, Table G is used for comparison

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TABLE NO. 6 (page 2 of 2)
Soil Sample Analytical Results: RCRA 8 Total Metals Plus Zinc - pH>8
900 W. 18th St. / Chicago, Illinois

															Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use		
															Route Specific Values		pH > 8.0
ANALYTE	B-21 (6-9)	B-22 (6-9)	B-23 (6-9)	B-23 (6-9)	B-24 (6-9)	B-24 (6-9)	B-25 (6-9)	B-27 (6-9)	B-27 (6-9)	B-29 (6-9)	B-29 (6-9)	B-32 (6-12)	B-33 (6-3)	B-34 (6-3)	Ingestion	Inhalation	Background
pH	8.3	8.8	8.6	8.2	8.8	11	12.0	11.0	11.0	12.0	8.6	8.2	8.2	8.2			
Arsenic	4,620	1,430	1,900	3,130	1,760	2,160	1,140	1,700	1,980	1,870	4,900	5,450	5,520	10,600	13,000 ⁽¹⁾	750,000	13,000
Barium	14,100	2,730	2,260	13,800	1,980	16,000	7,210	13,400	18,000	5,200	14,000	35,600	21,300	175,000	5,300,000	690,000,000	110,000
Cadmium	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	78,000	1,800,000	600
Chromium	3,720	<1000	<1000	5,310	<1000	2,760	3,000	3,120	5,070	2,610	5,600	12,100	5,000	10,400	390,000	270,000	16,200
Lead	318,000	803	9,630	8,350	4,360	77,000	105,000	46,600	306,000	21,900	8,090	40,600	2,260,000	111,800,000	400,000	—	36,000
Mercury	761	36	81.5	<33	<33	33	89	45.6	175	110	<33	<33	294	798	23,000	10,000	60
Selenium	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	390,000	—	480
Silver	<1000	<1000	<1000	<1000	<1000	<1000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	390,000	—	530
Zinc	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23,000,000	—	95,000

Notes:

Results listed in ug/kg (parts per Million)

"c" indicates not detected at stated detection limits

"—" indicates not analyzed or value not available

"F" indicates analyte detected between limit of detection (LOD) and limit of quantization (LOQ)

Shaded/boxed cell indicates concentration detected above most stringent Tier 1 SRO

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

(2) Background concentration identified in Appendix A, Table G

(3) No pH-specific values are available for this compound or pH level, therefore the background concentration as identified in 35 IAC 742, Appendix A, Table G is used for comparison

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TABLE NO. 7 (page 1 of 2)
Soil Sample Analytical Results: RCRA 8 Total Metals Plus Zinc - pH<8
900 W. 18th St. / Chicago, Illinois

			Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
			Residential Property Use ⁽¹⁾					
			Route Specific Values		pH = 6.9 to 7.24		pH = 7.75 to 8.0	
ANALYTE	B-1 (0-3)	B-13 (3-6)	Ingestion	Inhalation	Class I	Class II	Class I	Class II
pH	7.1	7.6						
Arsenic	1,100 "J"	6,300	13,000 ⁽²⁾	750,000	29,000	120,000	31,000	120,000
Barium	11,000	335,000	5,500,000	690,000,000	1,700,000	1,700,000	2,100,000	2,100,000
Cadmium	< 1,200	< 1,200	78,000	1,800,000	11,000	110,000	430,000	4,300,000
Chromium	3,400	7,300	390,000	270,000	36,000	--	28,000	--
Lead	298,000	368,000	400,000	--	36,000 ⁽³⁾	36,000 ⁽³⁾	36,000 ⁽³⁾	36,000 ⁽³⁾
Mercury	< 30	3,362	23,000	10,000	3,300	16,000	8,000	40,000
Selenium	< 2,500	< 2,500	390,000	--	4,500	4,500	2,400	2,400
Silver	< 9,000	< 3,000	390,000	--	13,000	--	110,000	--
Zinc	29,000	NA	23,000,000	--	7,500,000	15,000,000	53,000,000	110,000,000

Notes:

Results listed in ug/kg (parts per billion)

"<" indicates not detected at stated detection limits

"--" indicates value not available

"J" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)

Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 SRO

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

(2) Background concentration identified in Appendix A, Table G

(3) No pH-specific values are available for this compound, therefore the background concentration as identified in 35 IAC 742, Appendix A, Table G is used for comparison

TABLE NO. 7 (page 2 of 2)
Soil Sample Analytical Results: RCRA 8 Total Metals - pH<8
900 W. 18th St. / Chicago, Illinois

				Tier I Soil Remediation Objectives (Tier I SROs) Residential Property Use ⁽¹⁾			
				Route Specific Values		pH = 7.75 to 8.0	
ANALYTE	B-32 (0-3)	B-33 (6-9)	B-35 (0-3)	Ingestion	Inhalation	Class I	Class II
pH	8.0	7.7	8.0				
Arsenic	2,690	6,450	10,700	13,000 ⁽²⁾	750,000	31,000	120,000
Barium	14,200	11,700	172,000	5,500,000	690,000,000	2,100,000	2,100,000
Cadmium	<500	<500	2,310	78,000	1,800,000	430,000	4,300,000
Chromium	2,750	7,380	10,100	390,000	270,000	28,000	--
Lead	756,000	6,920	1,260,000	400,000	--	36,000 ⁽³⁾	36,000 ⁽³⁾
Mercury	234	<33	1,040	23,000	10,000	8,000	40,000
Selenium	<500	<500	998	390,000	--	2,400	2,400
Silver	<1,000	<1,000	<1,000	390,000	--	110,000	--

Notes:

Results listed in ug/kg (parts per billion)

"<" indicates not detected at stated detection limits

"--" indicates value not available

Shaded/Bolded cell indicates concentration detected above most stringent Tier I SRO

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

(2) Background concentration identified in Appendix A, Table G

(3) No pH-specific values are available for this compound or pH level, therefore the background concentration as identified in 35 IAC 742, Appendix A, Table G is used for comparison

TABLE NO. 8
Soil Sample Analytical Results: Priority Pollutant Total Metals plus Cyanide - pH>8
900 W. 18th St. / Chicago, Illinois

ANALYTE	B-2 (2-4)	B-5 (6-9)	B-11 (6-9)	B-12 (3-6)	Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use ⁽¹⁾		
					Route Specific Values		pH > 8.0
					Ingestion	Inhalation	Background ⁽³⁾
pH	8.4	10.4	8.6	8.1			
Arsenic	2,900	6,800	3,800	3,700	13,000 ⁽²⁾	750,000	13,000
Barium	60,000	36,000	22,000	19,000	5,500,000	690,000,000	110,000
Beryllium	< 120	320 "J"	< 120	< 120	100	1,300,000	590
Cadmium	< 1,200	< 1,200	< 1,200	13,000	78,000	1,800,000	600
Chromium	7,000	15,000	6,100	6,000	390,000	270,000	16,200
Cobalt	11,000	12,000	4,700 "J"	4,500 "J"	4,700,000	--	8,900
Copper	5,300	20,000	8,500	29,000	2,900,000	--	19,600
Cyanide	< 24	< 26	49 "J"	24 "J"	1,600,000	--	510
Lead	83,000	53,000	1,180,000	789,000	400,000	--	36,000
Mercury	109	680	514	1,510	23,000	10,000	60
Nickel	4,900	19,000	6,700	6,700	1,600,000	13,000,000	18,000
Selenium	< 2,500	< 2,500	< 2,500	< 2,500	390,000	--	480
Silver	< 3,000	< 3,000	< 3,000	< 3,000	390,000	--	550
Zinc	17,000	82,000	43,000	7,320,000	23,000,000	--	95,000

Notes:

Results listed in ug/kg (parts per billion)

"<" indicates not detected at stated detection limits

"--" indicates value not available

NA indicates not analyzed

"J" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)

Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 SRO

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

(2) Background concentration identified in Appendix A, Table G

(3) No pH-specific values are available for this compound or pH level, therefore the background concentration as identified in 35 IAC 742, Appendix A, Table G is used for comparison

TABLE NO. 9
Soil Sample Analytical Results: SPLP Metals
900 W. 18th St. / Chicago, Illinois

ANALYTE	B-17 (6-9)	B-18 (8-10)	B-19 (3-6)	B-21 (0-3)	B-34 (0-3)	Tier I Soil Remediation Objectives ⁽¹⁾	
						Class I	Class II
SPLP Barium	--	--	--	138	118	2,000	2,000
SPLP Cadmium	--	--	--	<3	<3	5	50
SPLP Lead	--	--	848	17.7	--	7.5	100
SPLP Mercury	--	<0.2	--	<0.2	--	2	10
SPLP Selenium	<5	--	--	<5	--	50	50
SPLP Silver	--	--	<5	<5	--	50	--

Notes:

Results listed in ug/L (parts per billion)

"<" indicates not detected at stated detection limits

"--" indicates not analyzed or value not available

NA indicates not analyzed

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

TABLE NO. 10
Soil Sample Analytical Results: Total, SPLP & TCLP Lead
900 W. 18th St. / Chicago, Illinois

	B-5 (E-5)	B-10 (E-5)	B-19 (E-5)	B-18 (E-10)	B-17 (E-5)	B-15 (E-5)	B-14 (E-5)	B-13 (E-5)	B-12 (E-5)	B-11 (E-5)	B-10 (E-5)	B-9 (E-5)	B-8 (E-5)	B-7 (E-5)	B-6 (E-5)	B-5 (E-5)	B-4 (E-5)	Tier 1 Soil Remediation Objective
Total Lead	1,610,000	3,350,000	4,150	443,000	85,300	4,838,000	1,770,000	--	3,248,000	--	--	--	--	--	--	--	--	400,000
SPLP Lead	--	--	--	--	--	848	--	--	--	--	--	--	--	--	--	--	--	100
TCLP Lead	136	<5	--	--	--	12,000	89,800	89	37,600	<100	<100	103	<100	<50	<50	105	5,000	

ANALYTE	B-51 (E-5)	B-51L (E-5)	B-51L (E-5)	B-54 (E-5)	B-57 (E-5)	B-58 (E-5)	B-60 (E-5)	B-60L (E-5)	B-61 (E-5)	B-62 (E-5)	B-62L (E-5)	B-63 (E-5)	B-63L (E-5)	B-64 (E-5)	B-64L (E-5)	B-65 (E-5)	B-65L (E-5)	Tier 1 Soil Remediation Objective
Total Lead	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	400,000
SPLP Lead	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100
TCLP Lead	2,970	<100	1,671,000	<100	<100	2,240	116,000	<100	11,900	<100	278	3,430	31,300	3,780	653	16,400	5,000	

Notes:
 Results listed in mg/kg or ug/L (parts per billion)
 "<" indicates not detected at stated detection limits
 "--" indicates not analyzed

RELEASABLE
 SEP 14 2001
 REVIEWER MD

TABLE NO. 11
Soil Sample Analytical Results: Carbazole
900 W. 18th St. / Chicago, Illinois

																		Tier 1 Soil Remediation Objectives (Tier 1 SROs) Residential Property Use ⁽¹⁾			
																		Route Specific Values		Migration to Groundwater	
ANALYTE	B-34 (0-3)	B-35 (0-3)	B-39 (3-6)	B-40 (3-6)	B-40 (6-9)	B-41 (3-6)	B-41 (6-9)	B-42 (3-6)	B-42 (6-9)	B-43 (0-3)	B-43 (3-6)	B-44 (6-9)	B-45 (6-9)	B-52 (0-3)	B-53 (0-3)	B-54 (0-3)	B-55 (0-3)	Ingestion	Inhalation	Class I	Class II
Carbazole	1,000	12,000	<330	<330	<330	<330	<330	49"J"	<330	<330	310"J"	<330	<330	2,200	<330	580	720	32,000	--	600	2,800

Notes:

Results listed in ug/kg (parts per billion)

EPA test method SW846, 8270

"<" indicates not detected at stated detection limits

"--" indicates value not available

"J" indicates analyte detected between limit of detection (LOD) and limit of quantitation (LOQ)

Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 SRO

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

TABLE NO. 12
Groundwater Sample Analytical Results: VOCs
900 W. 18th St. / Chicago, Illinois

ANALYTE	MW-1	MW-2	MW-3	Duplicate	EQ	Tier 1 Groundwater Remediation Objectives (Tier 1 GROs) ⁽¹⁾	
						Class I	Class II
2-Butanone (MEK)	<20	<20	<20	<20	<20	--	--
2-Hexanone	<10	<10	<10	<10	<10	--	--
4-Methyl-2-pentanone (MIBK)	<10	<10	<10	<10	<10	--	--
1,1-Dichloroethane	<5	<5	<5	<5	<5	700	3,500
1,1-Dichloroethene	<5	<5	<5	<5	<5	7	35
1,2-Dibromo-3-Chloropropane	<5	<5	<5	<5	<5	0.2	0.2
1,2-Dibromoethane	<5	<5	<5	<5	<5	0.05	0.5
1,2-Dichloroethane	<5	<5	<5	<5	<5	5	25
1,2-Dichloropropane	<5	<5	<5	<5	<5	5	25
1,3-Dichloropropene (total)	<10	<10	<10	<10	<10	1	5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	200	1,000
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	5	50
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	--	--
Acetone	<100	<100	<100	<100	<100	700	700
Benzene	<5	<5	<5	<5	<5	5	25
Bromodichloromethane	<5	<5	<5	<5	<5	0.02	0.02
Bromoform	<5	<5	<5	<5	<5	0.2	0.2
Bromomethane	<10	<10	<10	<10	<10	9.8	49
n-Butanol	<500	<500	<500	<500	<500	700	700
Carbon Disulfide	<5	220	<5	<5	<5	700	3,500
Carbon Tetrachloride	<5	<5	<5	<5	<5	5	25
Chlorobenzene	<5	<5	<5	<5	<5	100	500
Chlorodibromomethane	<5	<5	<5	<5	<5	140	140
Chloroethane	<10	<10	<10	<10	<10	--	--
Chloroform	<5	<5	<5	<5	<5	0.02	0.1
Chloromethane	<10	<10	<10	<10	<10	--	--
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	70	200
Ethylbenzene	<5	<5	<5	<5	<5	700	1,000
Methylene Chloride	<5	<5	<5	<5	<5	5	50
Styrene	<5	<5	<5	<5	<5	100	500
Tetrachloroethene	<5	<5	<5	<5	<5	5	25
Toluene	<5	<5	<5	<5	<5	1,000	2,500
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	100	500
Trichloroethene	<5	<5	<5	<5	<5	5	25
Vinyl Acetate	<10	<10	<10	<10	<10	7,000	7,000
Vinyl Chloride	<10	<10	<10	<10	<10	2	10
Total Xylenes	<5	<5	<5	<5	<5	10,000	10,000

Notes:

Results in ug/L (parts per billion)

EPA test method SW846, 8260

"<" indicates not detected at stated detection limits

"--" indicates value not available

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

TABLE NO. 13
Groundwater Sample Analytical Results: Acid Extractable Compounds
900 W. 18th St. / Chicago, Illinois

							Tier I Groundwater Remediation Objectives (Tier I GROs) ⁽¹⁾	
ANALYTE	MW-1	MW-2	MW-3	MW-4	Duplicate	EQ	Class I	Class II
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10	<10	700	3,500
2,4,6-Trichlorophenol	<5	<5	<5	<5	<5	<5	6.4	32
2,4-Dichlorophenol	<5	<5	<5	<5	<5	<5	21	21
2,4-Dimethylphenol	<5	<5	<5	<5	<5	<5	140	140
2,4-Dinitrophenol	<25	<25	<25	<25	<25	<25	14	14
2-Chlorophenol	<5	<5	<5	<5	<5	<5	35	175
2-Methyl-4,6-dinitrophenol	<25	<25	<25	<25	<25	<25	--	--
2-Methylphenol (o-Cresol)	<5	<5	<5	<5	<5	<5	350	350
2-Nitrophenol	<5	<5	<5	<5	<5	<5	--	--
4-Chloro-3-methylphenol	<5	<5	<5	<5	<5	<5	--	--
4-Methylphenol (p-Cresol)	<5	<5	<5	<5	<5	<5	350	350
4-Nitrophenol	<25	<25	<25	<25	<25	<25	--	--
Benzoic Acid	<25	<25	<25	38	<25	<25	28,000	28,000
Pentachlorophenol	<25	<25	<25	<25	<25	<25	1.0	5.0
Phenol	<5	<5	<5	10	<5	<5	100	100

Notes:

Results in ppb (parts per billion)

EPA Test Method SW846, 8270

"<" indicates not detected at stated detection limits

"--" indicates value not available

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

TABLE NO. 14
Groundwater Sample Analytical Results: Base/Neutral Extractable Compounds
900 W. 18th St. / Chicago, Illinois

ANALYTE	MW-1	MW-2	MW-3	MW-4	Duplicate	EQ	Tier I Groundwater Remediation Objectives (Tier I GROs) ⁽¹⁾	
							Class I	Class II
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	70	700
1,2-Dichlorobenzene	<5	<5	<5	<5	<5	<5	600	1500
1,3-Dichlorobenzene	<5	<5	<5	<5	<5	<5	--	--
1,4-Dichlorobenzene	<5	<5	<5	<5	<5	<5	75	375
2,4-Dinitrotoluene	<5	<5	<5	<5	<5	<5	0.02	0.02
2,6-Dinitrotoluene	<5	<5	<5	<5	<5	<5	0.1	0.1
2-Chloronaphthalene	<5	<5	<5	<5	<5	<5	--	--
2-Methylnaphthalene	<5	<5	<5	38	<5	<5	--	--
2-Nitroaniline	<25	<25	<25	<25	<25	<25	--	--
3,3'-Dichlorobenzidine	<10	<10	<10	<10	<10	<10	20	100
3-Nitroaniline	<25	<25	<25	<25	<25	<25	--	--
4-Bromophenylphenylether	<5	<5	<5	<5	<5	<5	--	--
4-Chloroaniline	<5	<5	<5	<5	<5	<5	28	28
4-Chlorophenylphenylether	<5	<5	<5	<5	<5	<5	--	--
4-Nitroaniline	<25	<25	<25	<25	<25	<25	--	--
Bis(2-chloroethoxy)methane	<5	<5	<5	<5	<5	<5	--	--
Bis(2-chloroethyl)ether	<5	<5	<5	<5	<5	<5	10	10
Bis(2-ethylhexyl)phthalate	<5	<5	<5	<5	<5	<5	6.0	60
Butylbenzylphthalate	<5	<5	<5	<5	<5	<5	1,400	7,000
Carbazole	<5	<5	<5	<5	<5	<5	--	--
Di-n-butyl phthalate	<5	<5	<5	<5	<5	<5	--	--
Di-n-octyl phthalate	<5	<5	<5	<5	<5	<5	140	700
Dibenzofuran	<5	<5	<5	<5	<5	<5	--	--
Diethyl phthalate	<5	<5	<5	<5	<5	<5	5,600	5,600
Dimethyl phthalate	<5	<5	<5	<5	<5	<5	--	--
Hexachlorobenzene	<5	<5	<5	<5	<5	<5	0.06	0.3
Hexachlorobutadiene	<5	<5	<5	<5	<5	<5	--	--
Hexachlorocyclopentadiene	<5	<5	<5	<5	<5	<5	50	500
Hexachloroethane	<5	<5	<5	<5	<5	<5	7.0	35
Isophorone	<5	<5	<5	<5	<5	<5	1,400	1,400
N-Nitroso-di-n-propylamine	<5	<5	<5	<5	<5	<5	10	10
N-Nitrosodiphenylamine	<5	<5	<5	<5	<5	<5	10	50
Nitrobenzene	<5	<5	<5	<5	<5	<5	3.5	3.5

Notes:

Results in ppb (parts per billion)

EPA Test Method SW846, 8270

"<" indicates not detected at stated detection limits

"--" indicates value not available

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

TABLE NO. 15
Groundwater Sample Analytical Results: PNAs
900 W. 18th St. / Chicago, Illinois

ANALYTE	MW-1	MW-2	MW-3	MW-4	Duplicate	EQ	Tier 1 Groundwater Remediation Objectives (Tier 1 GROs) ⁽¹⁾	
							Class I	Class II
Naphthalene	<0.1	<0.1	<0.1	8.1	<0.1	<0.1	25	39
Acenaphthene	<0.1	0.12	<0.1	0.68	<0.1	<0.1	420	2,100
Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2,100	10,500
Fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	280	1,400
Fluorene	<0.1	<0.1	<0.1	2.6	<0.1	<0.1	280	1,400
Pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	210	1,050
CARCINOGENIC PNAs								
Benzo(a)anthracene	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	0.13	0.65
Benzo(a)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	2.0
Benzo(b)fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.18	0.9
Benzo(k)fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.17	0.85
Chrysene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	7.5
Dibenzo(a,h)anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	1.5
Indeno(1,2,3-cd)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.43	2.15
NON-CARCINOGENIC PNAs								
Acenaphthylene	<0.1	<0.1	0.23	0.89	<0.1	<0.1	--	--
Benzo(g,h,i)perylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	--
Phenanthrene	<0.1	<0.1	<0.1	<2	<0.1	<0.1	--	--

Notes:

Results in ug/L (parts per billion)

EPA test method SW846, 8310

"<" indicates not detected at stated detection limits

"--" indicates value not available

Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 GRO

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

TABLE NO. 16
Groundwater Sample Analytical Results: Priority Pollutant Total Metals
900 W. 18th St. / Chicago, Illinois

									Tier I Groundwater Remediation Objectives (Tier I GROs) ⁽¹⁾	
ANALYTE	MW-1	MW-2	MW-2	MW-3	MW-4	MW-4	Duplicate	EQ	Class I	Class II
Date	3/15/01	3/15/01	4/12/01	3/15/01	3/15/01	4/12/01	3/15/01	3/15/01		
Antimony	9.46	21.7	--	21.8	10.4	--	11	<5	6	24
Arsenic	13.7	8.97	--	17.8	6.37	--	10.5	<5	50	200
Beryllium	<3	<3	--	<3	<3	--	<3	<3	4	500
Cadmium	<5	<5	--	<5	<5	--	<5	<5	5	50
Chromium	<10	<10	--	<10	<10	--	<10	<10	100	1,000
Copper	<10	<10	--	<10	29.8	--	11.7	<10	650	650
Lead	<5	117	36.3	60.8	238	301	7.45	<5	7.5	100
Mercury	<0.2	<0.2	--	<0.2	<0.2	--	<0.2	<0.2	2	10
Nickel	34.8	72.3	--	<20	<20	--	35.4	<20	100	2,000
Selenium	<5	<5	--	<5	<5	--	<5	<5	50	50
Silver	<10	<10	--	<10	<10	--	<10	<10	50	--
Thallium	5.01	<5	--	<5	5.17	--	5.94	<5	2	20
Zinc	201	705	--	22.6	3,680	--	95.9	<20	5,000	10,000

Notes:

Results in ug/L (parts per billion)

"<" indicates not detected at stated detection limits

"--" indicates not analyzed or value not available

Shaded/Bolded cell indicates concentration detected above most stringent Tier I GRO

(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives

APPENDIX A

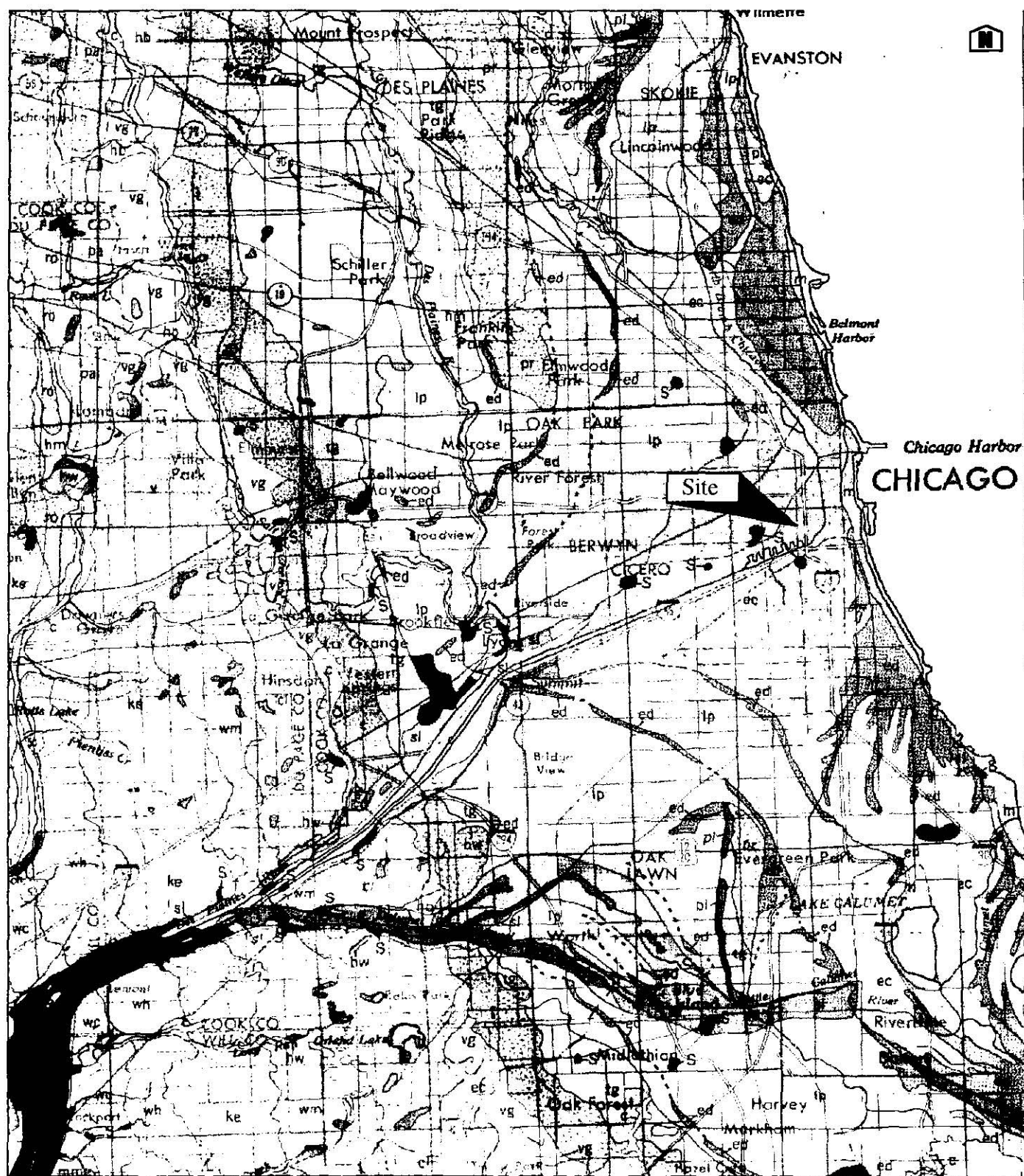
USGS/ISGS MAPS

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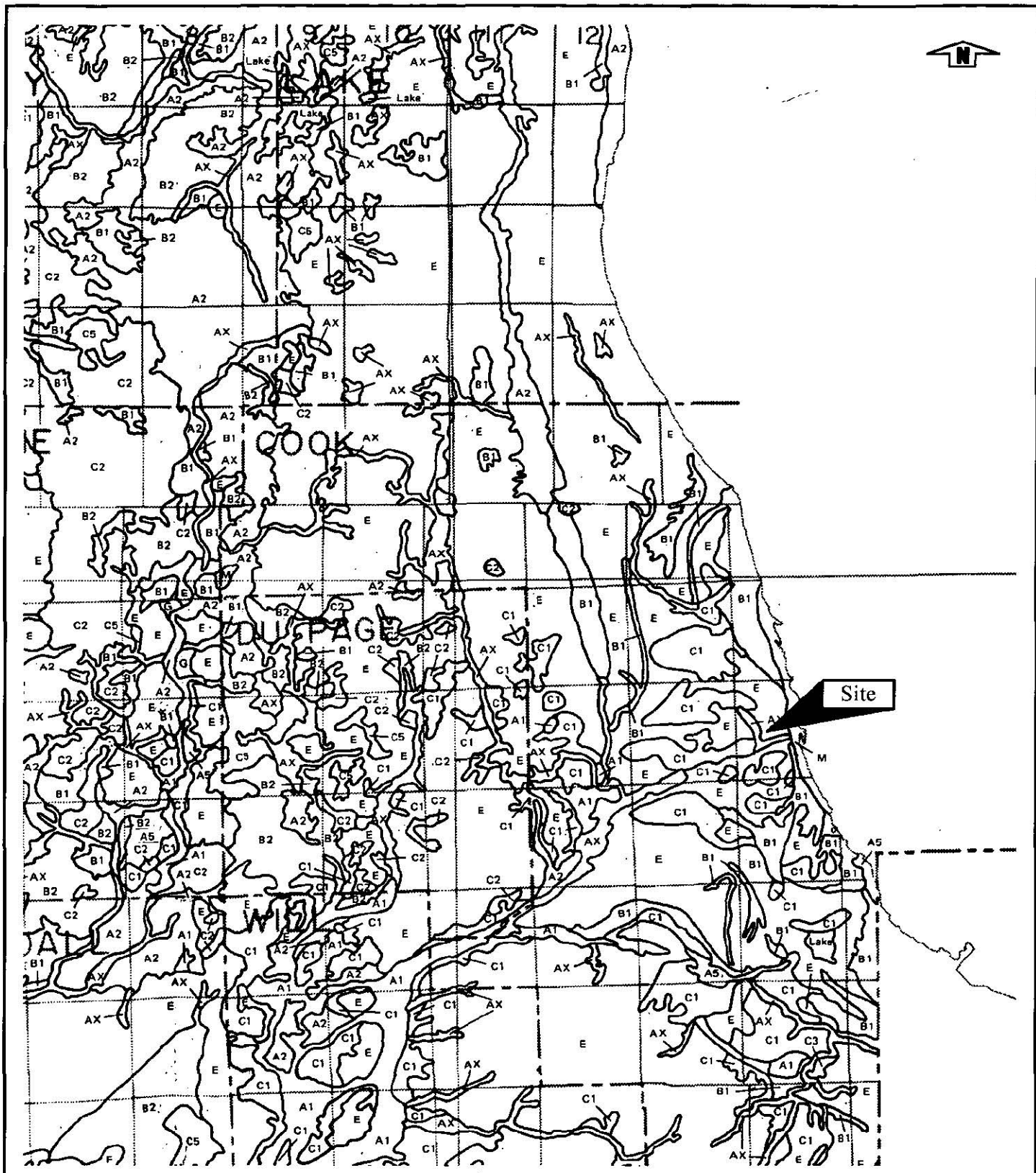
900 W. 18th Street
Chicago, Illinois
T.39N, R.14E., SEC. 20

KEY: ec = Carmi Member of Equality Formation
DESCRIPTION: Largely quiet-water lake sediments; dominantly well-bedded silt, locally laminated and containing thin beds of clay.

ISGS MAP
Surficial Geology of the Chicago Region
Scale 1:250,000
1970

Project Number: 00868C

Project Number: 00868C



PIONEER
ENVIRONMENTAL, INC.

900 W. 18th Street
Chicago, Illinois
T39N, R14E, SEC. 20

ISGS Circular 532 Map
Potential for Contamination of Shallow Aquifers
Scale: 1:500,000
1984

KEY: E
DESCRIPTION: Uniform, relatively impermeable silty, clayey
fill at least 50 ft thick; no evidence of interbedded sand/gravel.

Project Number: 00868C

APPENDIX B

DRM-1 FORM, DRM-2 FORM & SITE BASE MAP

Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

FOR ILLINOIS EPA USE:
Log No. _____

\$500 Advance Partial Payment Included
DRM-2 SRP Form Included
DRM-3 Request for Assessment Included
DRM-4 Tax Credit Budget Plan Included

Site Remediation Program Application and Services Agreement (DRM- 1) Form

I. Site Identification:

Site Name: <u>900 West 18th Street</u>	
Street Address: <u>900 West 18th Street</u>	
City: <u>Chicago</u>	ZIP Code: _____
County: <u>Cook</u>	Approximate Size of Site (Acres): <u>4.7</u>
Illinois Inventory I.D. Number: _____	U.S. EPA I.D. Number: _____
Site Base Map Attached <input checked="" type="checkbox"/> Illinois EPA Permit(s): _____	
LUST/IEMA Incident Number(s), if applicable: _____	

II. Remediation Applicant ("RA"):

RA's Name: <u>David Henriksen</u>	Title: <u>Counsel to Retirement Program</u>
Company: <u>The Retirement Program of Farley, Inc. c/o Liam Ventures, Inc.</u>	
Street Address: <u>233 South Wacker Drive, Suite 2150</u>	
City: <u>Chicago</u>	State: <u>IL</u> ZIP Code: <u>60606</u>
Phone: <u>312.993.1705</u>	FEIN or SSN: <u>36-3918311</u>

I hereby certify that I am authorized to sign this application and services agreement. I certify that the proposed project meets the eligibility criteria set forth in Section 58.1(a)(2) of the Environmental Protection Act (415 ILCS 5/58.1(a)(2)) and regulations promulgated thereunder and that this submittal and all attachments were prepared at my direction. In consideration for the Illinois EPA's agreement to provide (subject to applicable law, available resources, and receipt of the advance partial payment) review and evaluation services for activities carried out pursuant to Title 17 of the Illinois Environmental Protection Act (415 ILCS 5/58-58.12), I agree to:

- (1) Conform with the procedures of Title 17 of the Illinois Environmental Protection Act (415 ILCS 5/58 - 58.12) and implementing regulations;
- (2) Allow for or otherwise arrange site visits or other site evaluations by the Illinois EPA when requested;
- (3) To pay any reasonable costs incurred and documented by the Illinois EPA in providing such services*; and
- (4) Make an advance partial payment to the Illinois EPA for such anticipated services provided in Section V of this application.

As the Remediation Applicant, I understand that I may terminate this services agreement at any time, by notifying the Illinois EPA in writing that services previously requested under the services agreement are no longer wanted. Within 180 days after receipt of the notice, the Illinois EPA shall provide me with a final invoice for services provided until the date of receipt of such notification. To the best of my knowledge and belief, this request and all attachments are true, accurate and complete. I hereby certify that I have the authority to enter into this agreement.

RA's Signature: David Henriksen Date: 8-27-01

*In addition to the fees applicable under this Services Agreement, the recipient of a No Further Remediation Letter must pay to the Illinois EPA a No Further Remediation Assessment in the amount of the lesser of \$2500 or an amount equal to the costs incurred by the Illinois EPA under this Agreement (35 IAC 740.615).

III. Project Objectives:

A.	<p>Release Letter Requested. Please complete one of the subsections by checking applicable boxes and including other information (if necessary, additional information may be attached to this application form):</p>	<div> <input type="checkbox"/> Comprehensive No Further Remediation ("NFR") Letter </div> <div> <input checked="" type="checkbox"/> Focused NFR Letter Identify the focused contaminants of concern by checking the applicable box(es): <input checked="" type="checkbox"/> Volatiles <input type="checkbox"/> BTEX <input type="checkbox"/> PCBs <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Semivolatiles <input checked="" type="checkbox"/> PNAs <input type="checkbox"/> Pesticides Other (identify): _____ </div> <div> <input type="checkbox"/> 4(y) Letter Identify the focused contaminants of concern by checking the applicable box(es): <input type="checkbox"/> Volatiles <input type="checkbox"/> BTEX <input type="checkbox"/> PCBs <input type="checkbox"/> Metals <input type="checkbox"/> Semivolatiles <input type="checkbox"/> PNAs <input type="checkbox"/> Pesticides Other (identify): _____ Identify the media of concern by checking applicable boxes: <input type="checkbox"/> Soil <input type="checkbox"/> Sediments Other: _____ Identify the actions (e.g., drum removal, spill response, etc.): <div style="border: 1px solid black; height: 100px; width: 100%;"></div> </div>											
B.	<p>Identify any support services being sought from the Illinois EPA in addition to the review and evaluation services (if necessary, additional information may be attached to this application form):</p>	<div> <input checked="" type="checkbox"/> No additional support services are being sought <input type="checkbox"/> Assistance with community relations <input type="checkbox"/> Environmental Remediation Tax Credit Budget Review (Attach DRM-4 application) <input type="checkbox"/> Sample collection and analyses Other (identify): _____ </div>											
C.	<p>Anticipated Schedule</p>	<table border="1"> <thead> <tr> <th>SRP Document</th> <th>Projected Date of Receipt by Illinois EPA</th> </tr> </thead> <tbody> <tr> <td>Site Investigation Report</td> <td>8-30-2001</td> </tr> <tr> <td>Remediation Objectives Report</td> <td>8-30-2001</td> </tr> <tr> <td>Remedial Action Plan</td> <td>10-2001</td> </tr> <tr> <td>Remedial Action Completion report</td> <td>2-2002</td> </tr> </tbody> </table>	SRP Document	Projected Date of Receipt by Illinois EPA	Site Investigation Report	8-30-2001	Remediation Objectives Report	8-30-2001	Remedial Action Plan	10-2001	Remedial Action Completion report	2-2002	
SRP Document	Projected Date of Receipt by Illinois EPA												
Site Investigation Report	8-30-2001												
Remediation Objectives Report	8-30-2001												
Remedial Action Plan	10-2001												
Remedial Action Completion report	2-2002												
D.	<p>Identify the current and post-remediation uses of the remediation site (if necessary, additional information may be attached to this application form):</p>	<div> Current Use: Industrial </div> <div> Post-Remediation Use: Residential </div>											

IV. Written Permission from the Property Owner (check one of the applicable boxes and provide additional information):

<input checked="" type="checkbox"/> RA is the property owner of the remediation site identified in Section I of this application.
<input type="checkbox"/> RA is not the property owner of the remediation site identified in Section I of this application.
Property Owner's Name: _____
Title: _____
Company: _____
Street Address: _____
City: _____ State: _____ ZIP Code: _____ Phone: _____
<p>I hereby certify that the Remediation Applicant has my permission to enroll the site identified in Section I of this application into the Illinois EPA Site Remediation Program. I certify that the Remediation Applicant and designated representatives have permission to enter upon the indicated premises for the purpose of conducting remedial investigations or activities.</p> <p>Owner's Signature: _____ Date: _____</p> <p>For multiple property owners, attach additional sheets containing all the information above along with a signed, dated certification for each.</p>

V. Advance Partial Payment:

The Remediation Applicant shall select <u>one</u> of the following advance partial payment plans:
<input checked="" type="checkbox"/> Plan 1: A \$500 advance partial payment is included with this application. Please make the check payable to: "Treasurer, State of Illinois". Please include "For Deposit in the Hazardous Waste Fund" and the Remediation Applicant's FEIN or SSN on the check; or
<input type="checkbox"/> Plan 2: <u>Request that the Illinois EPA determine the appropriate partial payment (i.e., approximately one-half of the total anticipated costs of the Illinois EPA, not to exceed \$5,000). A completed DRM-3 form ("Request for Assessment of Advance Partial Payment for Anticipated Services") must accompany this application so that the Illinois EPA may determine the appropriate advance partial payment specific to the services requested.</u>
<p>NOTE: Illinois EPA cannot refund payments without a legislative appropriation. Payment under Plan 1 accelerates the review process but increases the risk of forfeiting the payment if the applicant is ineligible. Payment under Plan 2 may result in a larger advance partial payment when a final determination is made on the application, but it reduces the risk of forfeiture.</p>

L If this application contains plans and reports for review and evaluation by the Illinois EPA, a completed Form DRM-2 must also accompany this submittal.

The Illinois EPA is authorized to require this information under Section 415 ILCS 5/58-58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your application being rejected. This form has been approved by the Forms Management Center. All information submitted as part of this Application is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines.

Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

FOR ILLINOIS EPA USE:
LOG NO. _____

Site Remediation Program Form (DRM-2)
(To Be Submitted with all Plans and Reports)

I. Site Identification:

Site Name:	<u>900 West 18th Street</u>		
Street Address:	<u>900 West 18th Street</u>		
City:	<u>Chicago</u>	Illinois Inventory I. D. Number:	_____
IEMA Incident Number:	_____		

II. Remediation Applicant:

Applicant's Name:	<u>David Henriksen</u>	Company:	<u>The Retirement Program of Farley</u>	
Street Address:	<u>233 South Wacker Drive, Suite 2150</u>			
City:	<u>Chicago</u>	State:	<u>IL</u>	ZIP Code: <u>60606</u> Phone: <u>312.993.1705</u>
I hereby request that the Illinois EPA review and evaluate the attached project documents in accordance with the terms and conditions of the Environmental Protection Act (415 ILCS 5), implementing regulations, and the review and evaluation services agreement.				
Remediation Applicant's Signature: <u>David Henriksen</u>			Date: <u>8-27-01</u>	

III. Contact Person:

Contact's Name:	<u>Charity Simpson</u>	Company:	<u>Pioneer Environmental, Inc.</u>	
Street Address:	<u>1000 N. Halsted Street, Suite 202</u>			
City:	<u>Chicago</u>	State:	<u>IL</u>	ZIP Code: <u>60622</u> Phone: <u>312.587.1021</u>

IV. Review & Evaluation Licensed Professional Engineer ("RELPE"), if applicable:

RELPE's Name:	_____	Company:	_____	
Street Address:	_____			
City:	_____	State:	_____	ZIP Code: _____ Phone: _____
Registration Number:	_____		License Expiration Date:	_____

All information submitted is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines. The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your plan(s) or report(s) being rejected. This form has been approved by the Forms Management Center.

V. Project Documents Being Submitted:

Document Title: <u>SIR-Focused & ROR</u>		Date of Preparation of Plan or Report: <u>8-27-2001</u>
Prepared by: <u>Pioneer Environmental</u>	Prepared for: <u>The Retirement Prgm of Farley</u>	
Type of Document Submitted: <input type="checkbox"/> Site Investigation Report - Comprehensive <input checked="" type="checkbox"/> Site Investigation Report - Focused <input checked="" type="checkbox"/> Remediation Objectives Report-Tier 1 or 2 <input type="checkbox"/> Remediation Objectives Report-Tier 3 <input type="checkbox"/> Remedial Action Plan <input type="checkbox"/> Remedial Action Completion Report		
<input type="checkbox"/> Sampling Plan <input type="checkbox"/> Health and Safety Plan <input type="checkbox"/> Community Relations Plan <input type="checkbox"/> Risk Assessment <input type="checkbox"/> Contaminant Fate & Transport Modeling <input type="checkbox"/> Environmental Remediation Tax Credit - Budget Plan Review Other: _____		

Document Title: _____		Date of Preparation of Plan or Report: _____
Prepared by: _____	Prepared for: _____	
Type of Document Submitted: <input type="checkbox"/> Site Investigation Report - Comprehensive <input type="checkbox"/> Site Investigation Report - Focused <input type="checkbox"/> Remediation Objectives Report-Tier 1 or 2 <input type="checkbox"/> Remediation Objectives Report-Tier 3 <input type="checkbox"/> Remedial Action Plan <input type="checkbox"/> Remedial Action Completion Report		
<input type="checkbox"/> Sampling Plan <input type="checkbox"/> Health and Safety Plan <input type="checkbox"/> Community Relations Plan <input type="checkbox"/> Risk Assessment <input type="checkbox"/> Contaminant Fate & Transport Modeling <input type="checkbox"/> Environmental Remediation Tax Credit - Budget Plan Review Other: _____		

Document Title: _____		Date of Preparation of Plan or Report: _____
Prepared by: _____	Prepared for: _____	
Type of Document Submitted: <input type="checkbox"/> Site Investigation Report - Comprehensive <input type="checkbox"/> Site Investigation Report - Focused <input type="checkbox"/> Remediation Objectives Report-Tier 1 or 2 <input type="checkbox"/> Remediation Objectives Report-Tier 3 <input type="checkbox"/> Remedial Action Plan <input type="checkbox"/> Remedial Action Completion Report		
<input type="checkbox"/> Sampling Plan <input type="checkbox"/> Health and Safety Plan <input type="checkbox"/> Community Relations Plan <input type="checkbox"/> Risk Assessment <input type="checkbox"/> Contaminant Fate & Transport Modeling <input type="checkbox"/> Environmental Remediation Tax Credit - Budget Plan Review Other: _____		

VI. Professional Engineer's Seal or Stamp:

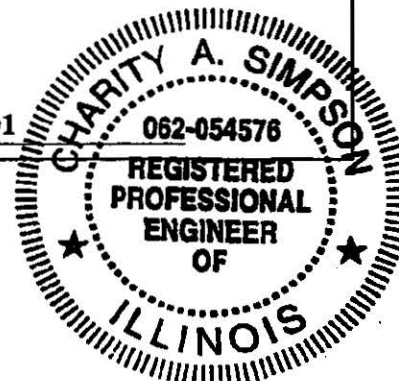
I attest that all site investigations or remedial activities that are the subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices, and the information presented is accurate and complete.

Engineer Name: Charity Simpson, P.E. Professional Engineer's Seal or Stamp:

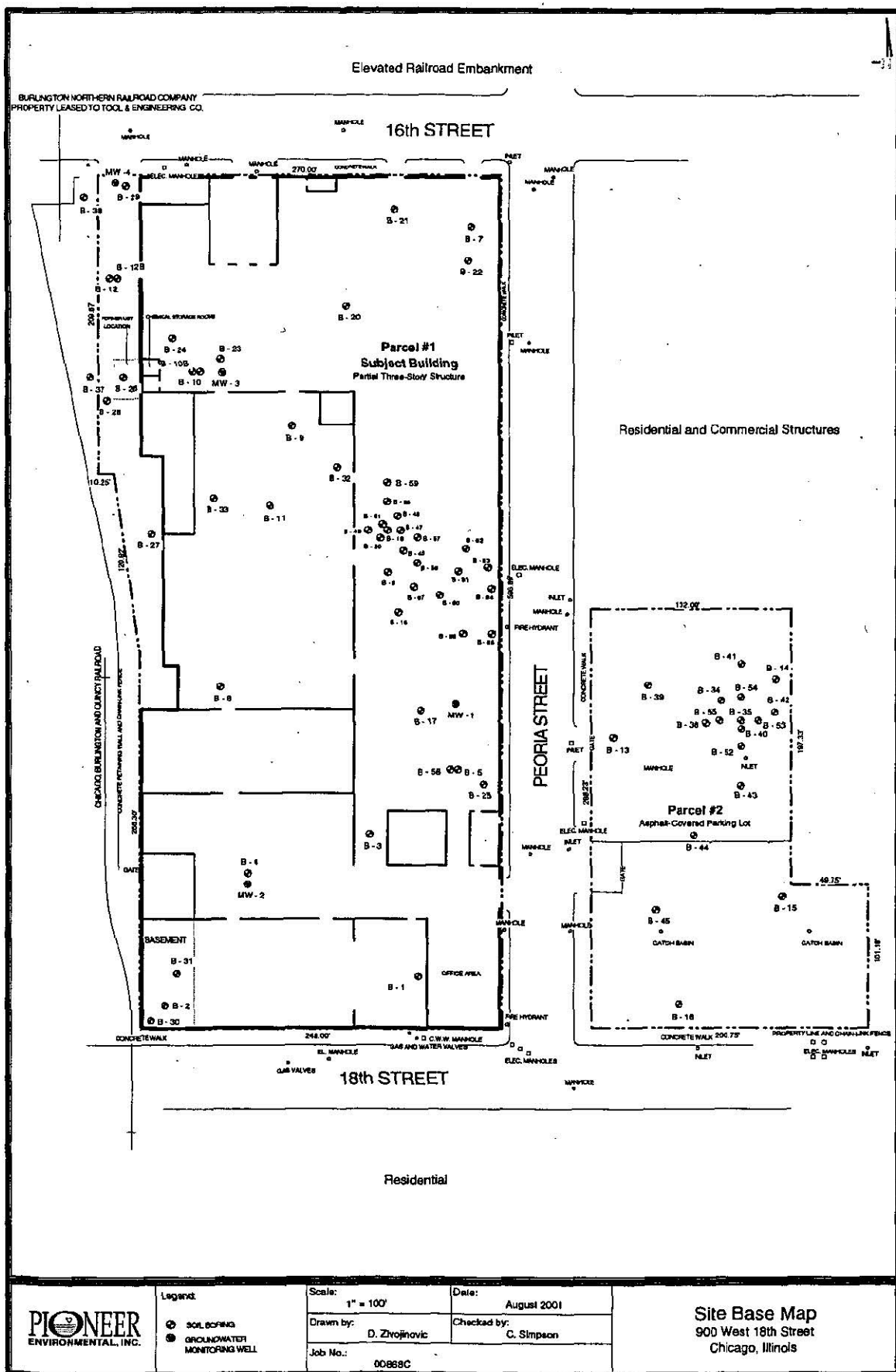
Company: Pioneer Environmen Phone: 312.587.1021

Registration Number: 062-054576

Signature: *Charity Simpson* License Expiration Date: 11-30-01



Site Base Map



APPENDIX C

SOIL AND GROUNDWATER SAMPLING PROTOCOLS

PROTOCOL FOR SUBSURFACE SOIL SAMPLING

Subsurface samples are collected by employing various soil boring techniques based on certain site specific conditions. Soil borings are performed using a Hollow or Solid Stem (site specific) auger with split-spoon sampling techniques, a hydraulic percussive split-spoon sampler, a percussive Macro-Core® barrel sampler, and/or a stainless steel hand auger. The soil sampling activities are conducted in accordance with American Society of Testing and Materials (ASTM) standards (ASTM:D 1586). Soil samples are collected with a stainless steel hand auger, a split-spoon sampler, and/or a Macro-Core® sampler at 2-3 foot intervals depending on the specific method used. In the split-spoon sampling procedures, a split-barrel sampler having either a 2-inch or 1-3/16 inch outside diameter, an inside diameter of 1-3/8 or 7/8 inches, and a length of 2.5 or 3 feet is driven into the soil to collect a representative and undisturbed sample. In the Macro-Core® barrel sampling technique, a stainless steel barrel having a 2-inch outside diameter, an inside diameter of 1-1/2 inches, and a length of 2 or 3 feet is fitted with a PVC liner and is driven into the soil to collect a representative and undisturbed sample.

The drilling is directed by a Pioneer Environmental Field Project Geologist/Engineer, who logs geologic materials encountered during drilling, field screens auger cuttings and soil samples, observes the drilling activities, and supervises sample collection. Each sample is examined in the field for odor and visual evidence of hydrocarbon or other organic contamination. The field observations are noted in the soil boring logs that are included in the Appendices.

A representative portion of each sample is placed into an unused, air-tight plastic bag which is sealed and dedicated to that discrete sample. The sample is allowed to achieve a constant temperature and the headspace above each sample is screened for volatile organic compounds (VOCs) using either a Photovac MP-1000 handheld air monitor / photoionization detector (PID) or a Photovac IS 3000 handheld air monitor / flame ionization detector (FID), depending on the nature of the targeted contaminants. The PID/FID are devices that are sensitive to a variety of VOCs. The headspace is screened by inserting the PID/FID probe into the space above the soil and recording the maximum reading of the instrument. The results of the headspace screening are also listed on the soil boring logs.

When soil samples will be laboratory tested for VOCs, one of two field sampling methods are used as required by US EPA's SW-846 Method 5035. 1) A representative portion of the sample collected in the field is placed in an EnCore™ sampler, or equivalent, immediately after collection, with the appropriate quantity and volume of the containers determined by the scope of work and field conditions. The EnCore™ samplers, or equivalent, are delivered to the laboratory within 48 hours of sample collection. 2) An appropriate weight of a representative portion of the sample collected in the field is placed in laboratory-provided glassware, immediately after collection, and then the appropriate preservative is added, either sodium bisulfate-for samples with estimated VOC concentrations less than 200 ppb; or methanol-for samples with estimated VOC concentrations greater than 200 ppb.

Any soil samples chosen for analysis are packed in appropriate containers, properly labeled, and shipped in a cooler on ice via a delivery service overnight to an independent laboratory under standard chain-of-custody procedures. Samples are selected based on the scope of work, field observations (i.e. visual/odor observations, elevated PID readings, etc.), other site specific conditions, and the judgment of the Pioneer Field Project Geologist/Engineer.

Drill cuttings and liquids generated are left at the borehole. All boreholes are decommissioned in accordance with applicable Illinois Department of Public Health guidelines. When required, these spoils are contained in 55 gallon Type 17H drums. Decontamination procedures for the drilling equipment consists of steam cleaning the augers after each boring using a biodegradable detergent and high-pressure steam rinse. The split-spoon samplers are decontaminated between each sample interval by washing in a solution of Alconox and water, and triple rinsing with clean heated water.

Any deviations to or modifications of this standard protocol will be described on a site by site basis.

PROTOCOL

GROUNDWATER MONITORING WELL INSTALLATION & SAMPLING

Groundwater monitoring wells are typically installed using hollow stem auger borings. When spatial constraints dictate, wells may be installed using manual hand-augering techniques, or other acceptable practices. Soil sampling is conducted during well installation, according to Pioneer's Subsurface Soil Sampling Protocol. The drilling and well installation are directed by Pioneer's Field Project Geologist/Engineer, who logs geologic materials encountered during drilling, field screens auger cuttings and soil samples, observes the drilling activities, and supervises installation of groundwater monitoring wells. All drilling equipment and tools are properly decontaminated (i.e. pressure washing, steam cleaning, etc.) prior to mobilization onto the site, between boreholes, and upon completion of the drilling program.

Wells are constructed of 2 inch I.D. schedule 40 flush-joint PVC riser and screen unless noted otherwise in the report. The well materials are decontaminated prior to installation. When the depth of the well allows, the annular space surrounding the screen is backfilled with silica sand filter pack to a height not less than 1 foot above the top of the well screen, and a minimum of one foot of bentonite pellets or granular bentonite is placed above this backfill, to provide a low permeability seal. The remaining annulus is sealed with a cement/bentonite grout to the ground surface. Well screens are positioned to monitor selected areas of the water column. In high traffic areas, a flush-mount protective casing with a locking well cap is generally installed at the surface and secured with concrete. In low traffic areas, a "stickup" locking protective casing is typically installed.

After installation, wells are developed using either a new disposable high-density polyethylene (HDPE) bailer for each well, or a stainless steel submersible pump, by purging approximately 5-10 well volumes of water from each well, until the well water is visually clear of suspended sediments, or until further yield cannot be achieved. Wells are allowed to stabilize prior to sampling, to ensure the collected sample is representative of groundwater at the location. If a stainless steel pump is used during well development, it is decontaminated between wells using a tri-sodium phosphate (TSP) wash and triple water rinse.

Prior to sample collection, the wells are purged by removing a maximum of 3-5 well volumes of water or until further yield cannot be achieved in order to remove all static water from the wells. Purging is accomplished using either a disposable HDPE bailer which is dedicated to the individual well or a stainless steel submersible pump. Sample collection is accomplished using a new disposable HDPE bailer for each well. Groundwater samples are collected, placed in appropriately sized laboratory provided glassware and labeled, identifying sample number, location and date, and sampling personnel. The proper sample preservatives are added to the sampling jars as required. Standard chain-of-custody procedures are followed regarding shipment and receipt of samples.

Quality Assurance/Quality Control (QA/QC) procedures for field sampling techniques are performed on a site-by-site basis per scope of work considerations and contract obligations.

In accordance with Pioneer's Site Safety Plan, a photoionization detector (PID) is used to monitor ambient air concentrations at the sampling locations. Personal protective equipment is utilized by site personnel during performance of sampling activities, as specified in the Site Safety Plan as necessary.

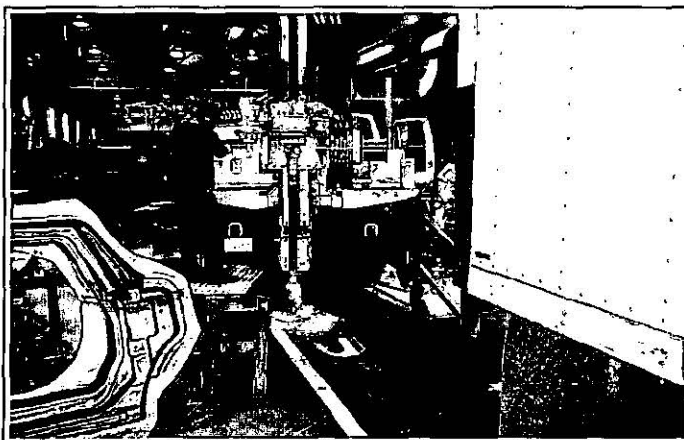
Any deviations to or modifications of this standard protocol will be described on a site-by-site basis.

APPENDIX D

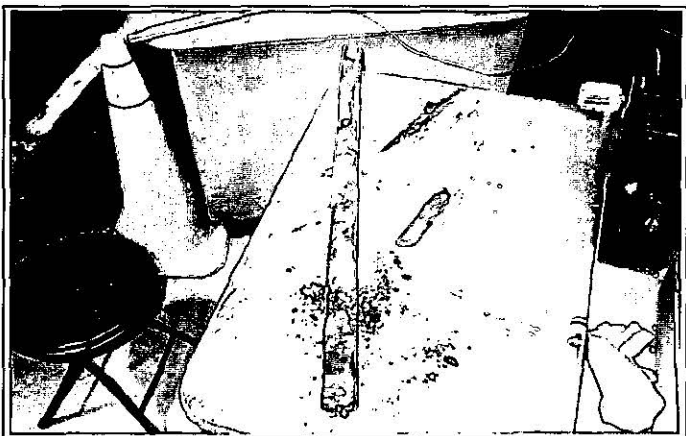
PHOTOGRAPHIC LOG



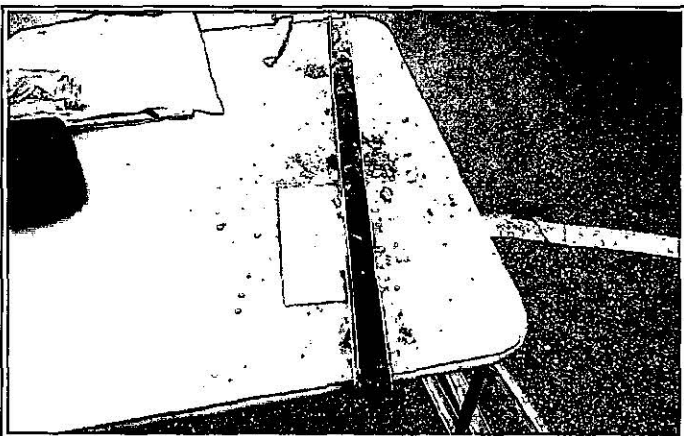
View of typical soil boring being advanced



View of Monitoring Well being drilled



View of typical soil sample (fill)



View of typical soil sample

PIONEER
ENVIRONMENTAL, INC.




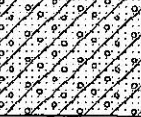
900 West 18th Street
Chicago, Illinois

PHOTOGRAPHIC LOG

Project Number: 00868C

APPENDIX E

SOIL BORING LOGS/MONITORING WELL COMPLETION LOGS

			Boring Log				Boring No.: B-1
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/21/2000
							Date End: 12/21/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	50%		<div>3</div> <div>6</div> <div>9</div> <div>12</div> <div>15</div> <div>18</div>	Concrete		CONCRETE	No visual No odor
				Fill		Crushed limestone FILL Loose, Dry	
				Refusal at 3 feet			

Completion Notes:

Hatched pattern denotes sample analyzed.

Drill Rig:

SIMCO EarthProbe 200

Driller:

Predrag Vrhovac

Geologist:

Charity Simpson

LUST Incident No:



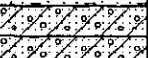
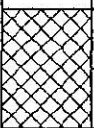

NA

Water Depth While Drilling:-

Water Depth After Drilling: NA




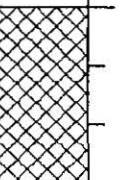
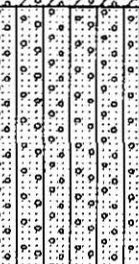
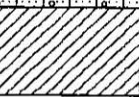
Project Number: 00868B

Page 1



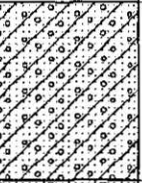
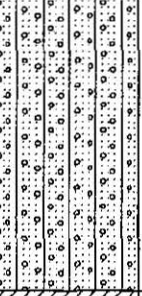
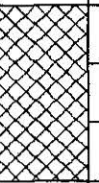

			Boring Log				Boring No.: B-2
			Site:				Date Begin: 12/21/2000
			900 West 18th Street Chicago, Illinois				Date End: 12/21/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	100%			Concrete		CONCRETE	No visual No odor
				Fill		Black cinders and sand Loose, Moist	
46	100%		3	Fill		Gray crushed limestone FILL Loose, Wet	
						Boring terminated at 4 feet	
			6				
			9				
			12				
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed. Boring located in basement.	Drill Rig:	Hand Geoprobe
	Driller:	J. Mizwicki
	Geologist:	Charity Simpson
	LUST Incident No:	NA



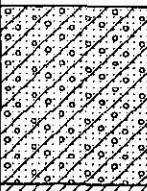
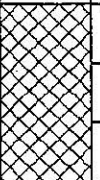
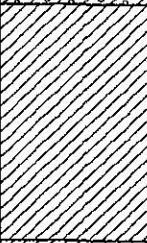
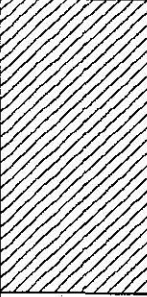
Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868B	Page 1
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			Boring Log				Boring No.: B-3
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/21/2000
							Date End: 12/21/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
-	0%			Concrete		CONCRETE	No visual No odor
						No recovery	
5	60%		3	Fill		Crushed limestone FILL Loose, Moist	
45	90%		6	SM		Tan well-sorted fine-grained silty SAND Dense, Wet Medium dense, Wet at 9'-10.5'	
			9				
20	90%			CL		Gray silty CLAY with some fine-grained SAND Medium firm, Wet	
			12			Boring terminated at 12 feet	
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed:	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	Charity Simpson
	LUST Incident No: NA	
Water Depth While Drilling: 6'		Water Depth After Drilling: NA
Project Number: 00868B		Page 1



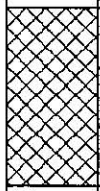

			Boring Log				Boring No.: B-4
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/21/2000 Date End: 12/21/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
-	0%			Concrete		CONCRETE	No visual No odor
						No recovery	
<1	80%		3	Fill		Black silty Sand and Gravel Loose, Moist	
102	80%		6	SM		Tan well-sorted fine-grained silty SAND Medium dense, Damp	
125	90%		9				
			12	CL		Gray silty CLAY with trace fine-grained SAND Firm, Damp Boring terminated at 12 feet	
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	Charity Simpson
	LUST Incident No:	NA
Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868B
		Page 1

			Boring Log				Boring No.: B-5
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/21/2000 Date End: 12/21/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
	0%			Concrete		CONCRETE	No visual No odor
						No recovery	
8	50%		3	Fill		Black fine-grained silty sand with bricks and gravel Loose, Dry to moist	No visual No odor
313	50%		6	CL		Black silty CLAY with some gravel, disturbed Soft, Wet	No visual Strong odor
			9				
30	90%					Gray silty CLAY with trace fine-grained SAND Firm, Damp	No visual No odor
			12	CL			
12	90%					Boring terminated at 15 feet	
			15				
			18				




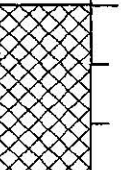
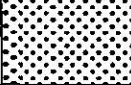
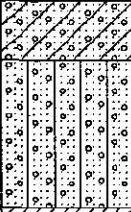

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	Charity Simpson
	LUST Incident No:	NA

Water Depth While Drilling: 6'	Water Depth After Drilling: NA	Project Number: 00868B	Page 1
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			Boring Log				Boring No.: B-6
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/21/2000 Date End: 12/21/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
81	50%			Concrete		CONCRETE	No visual No odor
226	30%		3	Fill		Dark brown well-sorted fine-grained silty sand with bricks and gravel Loose, Moist	
			6				
55	20%		9				
						Boring terminated at 9 feet	
			12				
			15				
			18				



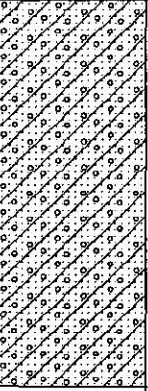
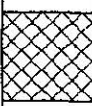
Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	Charity Simpson
	LUST Incident No:	NA



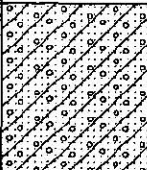

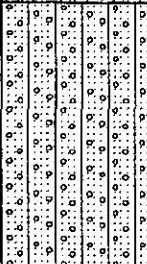

Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868B	Page 1
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			Boring Log				Boring No.: B-7
			Site:				Date Begin: 12/22/2000
			900 West 18th Street Chicago, Illinois				Date End: 12/22/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
	0%			Concrete		CONCRETE	
						No recovery	
208	50%		3	Fill		Crushed limestone, bricks, sand and gravel Dense, Moist	No visual Petroleum odor
890	60%		6	SW		Black well-sorted fine-grained SAND Dense, Damp	Petroleum odor
759			9	SM		Crushed limestone Loose, Wet	
	50%					Gray well-sorted fine-grained silty SAND Wet	
10							
			12	CL		Brown and gray silty CLAY Stiff, Moist	Slight odor
16	90%						No visual No odor
			15			Boring terminated at 15 feet	
			18				





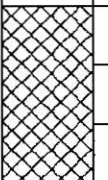
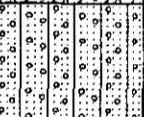

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	Charity Simpson
	LUST Incident No:	NA





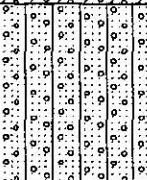
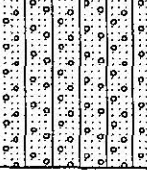
Water Depth While Drilling: 7'	Water Depth After Drilling: NA	Project Number: 00868B	Page 1
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			Boring Log				Boring No.: B-8	
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/22/2000 Date End: 12/22/2000	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
<1	60%			Concrete		CONCRETE	No visual No odor	
			3	Fill		Crushed limestone FILL Dense, Slight Moist at 1'-6' Dense, Wet at 6'-7.5'		
34	40%		6					
109	30%					Refusal at 7.5 feet		
			9					
			12					
			15					
			18					
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200		
						Driller: Predrag Vrhovac		
						Geologist: Charity Simpson		
						LUST Incident No: NA		
Water Depth While Drilling: 6'		Water Depth After Drilling: NA		Project Number: 00868B		Page 1		

			Boring Log				Boring No.: B-9	
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/22/2000 Date End: 12/22/2000	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
	0%			Concrete		CONCRETE		
						No recovery		
<1	60%		3	Fill		Tan and black sand, bricks and gravel Dense, Slightly moist	No visual No odor	
1620	50%		6	SM		Dark gray to black well-sorted fine-grained silty SAND Medium dense, Damp	No visual Slight odor	
			9					
1420	90%			CL		Brown and gray silty CLAY Firm, Moist	No visual Slight odor	
			12			Boring terminated at 12 feet		
			15					
			18					



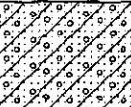
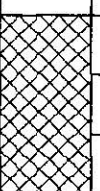
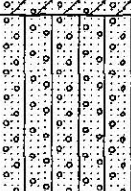
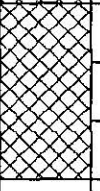
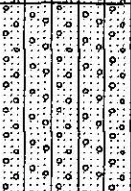

Completion Notes: Hatched pattern denotes sample analyzed.		Drill Rig: SIMCO EarthProbe 200					
		Driller: Predrag Vrhovac					
		Geologist: Charity Simpson					
		LUST Incident No: NA					
Water Depth While Drilling:-		Water Depth After Drilling: NA		Project Number: 00868B		Page 1	

			Boring Log				Boring No.: B-10
			Site:				Date Begin: 12/22/2000
			900 West 18th Street Chicago, Illinois				Date End: 12/22/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	20%			Concrete		CONCRETE	No visual No odor
			3	Fill		Crushed limestone FILL Dense, Moist	
13	50%						
			6	Fill		Tan and black sand, bricks and gravel Loose, Moist	No visual Strong odor
2651	90%		9	SM		Black well-sorted fine-grained silty SAND Medium dense, Damp	
				CL		Gray silty CLAY Firm, Moist	No visual Slight odor
330	90%		12			Boring terminated at 12 feet	
			15				
			18				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200	
						Driller: Predrag Vrhovac	
						Geologist: Charity Simpson	
						LUST Incident No: NA	
Water Depth While Drilling: 9'			Water Depth After Drilling: NA			Project Number: 00868B	Page 1


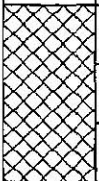
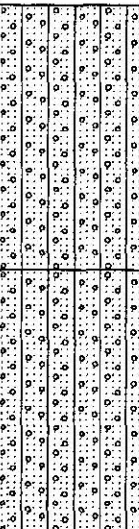
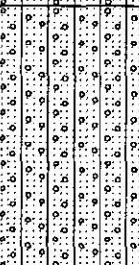
			Boring Log				Boring No.: B-11
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/22/2000 Date End: 12/22/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
	0%			Concrete		CONCRETE	No visual No odor
						No recovery	
44	50%		3	Fill		Black sand, bricks, gravel and crushed limestone Loose, Moist	
2946	50%		6	SM		Black to tan well-sorted <i>fine-grained silty SAND</i> Medium dense, Damp	
31	50%		9	SM		Tan well-sorted fine-grained silty SAND Loose, Wet	
			12			Boring terminated at 12 feet	
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	Charity Simpson
	LUST Incident No:	NA

Water Depth While Drilling: 9'	Water Depth After Drilling: NA	Project Number: 00868B	Page 1
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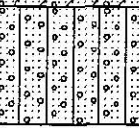
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			Site:				Date Begin: 12/22/2000
			900 West 18th Street Chicago, Illinois				Date End: 12/22/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
				Concrete		CONCRETE	No visual No odor
<1	50%			Fill		Crushed limestone	
			3				
283	50%			SM		Black well-sorted fine-grained silty SAND Loose, Wet	
			6				
330	50%			SM		Tan well-sorted fine-grained silty SAND Loose, Wet	
			9				
14	90%			CL		Brown and gray silty CLAY with trace fine-grained sand	
			12			Firm, Moist Boring terminated at 12 feet	
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed.		Drill Rig:	SIMCO EarthProbe 200
		Driller:	Predrag Vrhovac
		Geologist:	Charity Simpson
		LUST Incident No: NA	
Water Depth While Drilling: 5'	Water Depth After Drilling: NA	Project Number: 00868B	Page 1

			Boring Log				Boring No.: B-13
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/22/2000
							Date End: 12/22/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
-	0%			Asphalt		ASPHALT	No visual No odor
						No recovery	
11	60%		3	SM		Black well-sorted fine-grained silty SAND with trace gravel Medium dense, Moist	
			6				
4	50%			SM		Tan well-sorted fine-grained silty SAND Medium dense, Wet	
			9				
3	60%					Boring terminated at 12 feet	
			12				
			15				
			18				



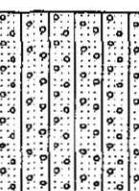
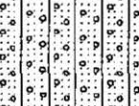
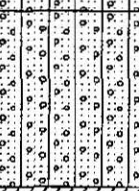


Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	Charity Simpson
	LUST Incident No:	NA


Water Depth While Drilling: 3'	Water Depth After Drilling: NA	Project Number: 00868B	Page 1
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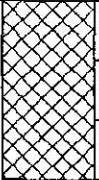

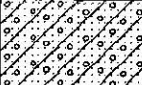
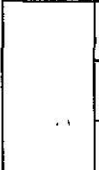
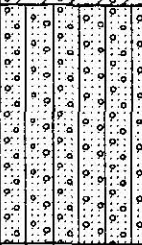
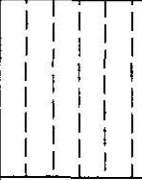
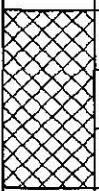
			Boring Log				Boring No.: B-14
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/22/2000
							Date End: 12/22/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
-	0%			Asphalt		ASPHALT	No visual No odor
						No recovery	
			3	Fill		Crushed limestone Loose, Moist	
<1	60%			SM		Tan well-sorted fine-grained silty SAND Loose, Moist	
			6			Auger refusal at 6 feet	
			9				
			12				
			15				
			18				

Completion Notes:	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	Charity Simpson
	LUST Incident No:	NA

Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868B	Page 1
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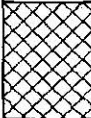
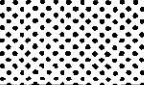
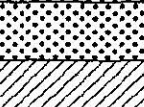

			Boring Log				Boring No.: B-15
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/22/2000
							Date End: 12/22/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
-	0%			Asphalt		ASPHALT	No visual No odor
						No recovery	
<1	50%		3			Black well-sorted fine-grained silty SAND with trace gravel Medium dense, Moist	
			6	SM			
<1	50%		9	SM		Tan well-sorted fine-grained silty SAND Medium dense, Wet	
<1	90%		12	CL		Gray silty CLAY with some fine-grained sand Soft, Wet Boring terminated at 12 feet	
			15				
			18				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200	
						Driller: Predrag Vrhovac	
						Geologist: Charity Simpson	
						LUST Incident No: NA	
Water Depth While Drilling: 8'			Water Depth After Drilling: NA			Project Number: 00868B	Page 1

			Boring Log				Boring No.: B-16
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 12/22/2000
							Date End: 12/22/2000
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
-	0%			Asphalt		ASPHALT	No visual No odor
						No recovery	
<1	70%		3	SM		Black well-sorted fine-grained silty SAND with some glass and cinders Medium dense, Damp	
			6				
<1	50%		9	SM		Tan well-sorted fine-grained silty SAND Medium dense, Wet	
<1	50%		12			Boring terminated at 12 feet	
			15				
			18				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200 Driller: Predrag Vrhovac Geologist: Charity Simpson LUST Incident No: NA	
Water Depth While Drilling: 7'				Water Depth After Drilling: NA		Project Number: 00868B	Page 1

			Boring Log				Boring No.: B-17
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/08/2001 Date End: 03/08/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
3	50%		3	Concrete		Concrete	
				Fill		Crushed limestone FILL Loose, Moist	
1	100%		6	SM		Brown silty SAND Loose, Moist	
				OL		Brown clayey SILT Soft, Moist	
4	100%		9			Boring terminated at 9 feet	
			12				
			15				
			18				





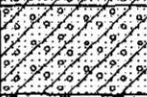

Completion Notes: Hatched patterns denote sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	C. Simpson
	LUST Incident No:	NA

Water Depth While Drilling: 6.5'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-18	
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/08/2001	
							Date End: 03/08/2001	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
14	90%		3	Concrete		Concrete	No visual No odor	
				Fill		Crushed limestone FILL Loose, Moist		
18	90%		6	Fill		Crushed limestone Fill and black to medium-tan sand Loose, Moist		
36	40%		9	SW		Black well-sorted medium-grained SAND with woods fragments Dense, Wet		Slight odor
15	50%			SW		Tan well-sorted medium-grained SAND Dense, Wet		No visual No odor
			12	CL		Brown and gray silty CLAY with trace fine-grained sand Firm, Moist		
						Boring terminated at 12 feet		
			15					
			18					


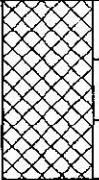


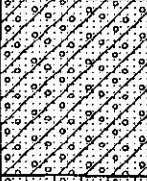
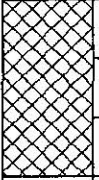
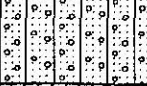

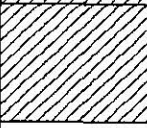
Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	C. Simpson
	LUST Incident No:	NA


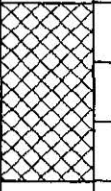


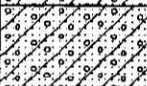
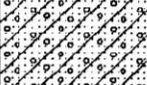
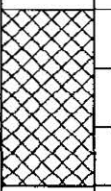



Water Depth While Drilling: 9'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-19
			Site:				Date Begin: 03/08/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/08/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
12	90%		3	Concrete		Concrete	No visual No odor
	Fill				Crushed limestone FILL Loose, Moist		
17	90%		Fill		Black medium-coarse sand with bricks and concrete Loose, Moist		
			Concrete		Concrete		
						Refusal at 6.5 feet	
			9				
			12				
			15				
			18				





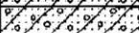
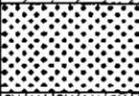
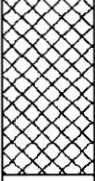
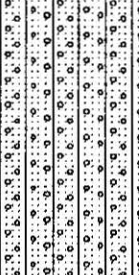

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	C. Simpson
	LUST Incident No:	NA

Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-20
			Site:				Date Begin: 03/08/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/08/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
25	60%		3	Concrete		Concrete	No visual No odor
				Fill		Crushed limestone FILL Loose; Moist	
24	85%		6	Fill		Crushed bricks, gravel, concrete and sand	
26	85%		9	SM		Brown well-sorted fine to medium-grained silty SAND	
				CL		Dense, Wet Brown medium-grained sandy CLAY	
26	85%		12	CL		Firm, Moist Gray silty CLAY with some medium-grained sand	
			15			Soft, Wet	
			18			Boring terminated at 12 feet	
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200	
						Driller: Predrag Vrhovac	
						Geologist: C. Simpson	
						LUST Incident No: NA	
Water Depth While Drilling: 7'			Water Depth After Drilling: NA			Project Number: 00868D	Page 1







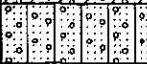
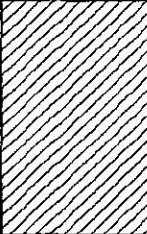
			Boring Log				Boring No.: B-21
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/08/2001
							Date End: 03/08/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
26	60%		3	Concrete		Concrete	No visual No odor
				Fill		Crushed limestone FILL Loose, Moist	
						Crushed bricks, gravel and sand FILL Loose, Moist	
26	85%		6	Fill			Slight odor
							
38	85%		9	SW		Black well-sorted medium-grained SAND Dense, Damp	
				CL		Brown well-sorted medium-grained silty CLAY Dense, Damp to wet	No visual No odor
27	85%		12	CL		Brown and gray silty CLAY Stiff, Moist	
			15			Boring terminated at 12 feet	
			18				

Completion Notes: Hatched pattern denotes sample analyzed.		Drill Rig:	SIMCO EarthProbe 200
		Driller:	Predrag Vrhovac
		Geologist:	C. Simpson
		LUST Incident No:	NA
Water Depth While Drilling:		Water Depth After Drilling: NA	
Project Number: 00868D		Page 1	

			Boring Log				Boring No.: B-22
			Site:				Date Begin: 03/08/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/08/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
7	70%		3	Concrete		Concrete	No visual No odor
				Fill		Crushed limestone FILL Loose, Moist	
11	70%			Fill		Crushed bricks and sand FILL Loose, Moist	No visual Slight odor
			6	SW		Tan and black well-sorted medium-grained SAND Dense, Moist	
20	90%		9	SM		Dark gray well-sorted medium-grained silty SAND Dense, Wet	No visual Slight odor
12	90%		12	CL		Brown and gray silty CLAY Firm, Moist	No visual No odor
						Boring terminated at 12 feet	
			15				
			18				




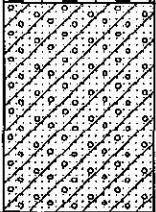
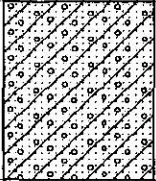

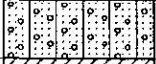
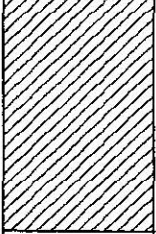
Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	C. Simpson
	LUST Incident No:	NA

Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			<h2 style="text-align: center;">Boring Log</h2>				Boring No.: B-23	
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/08/2001 Date End: 03/08/2001	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
15	80%		3	Concrete		Concrete	No visual No odor	
				Fill		Crushed limestone FILL Loose, Moist		
14	80%		6	Fill		Black sand with gravel and cinders Dense, Moist		
14	90%		9	SM		Tan well-sorted medium-grained silty SAND Dense, Damp to wet		
19	90%		12	CL		Gray silty CLAY with some fine-grained sand Firm, Moist		
			15			Boring terminated at 12 feet		
			18					





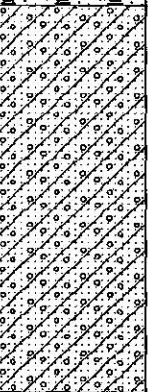

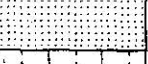


Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	C. Simpson
	LUST Incident No:	NA



Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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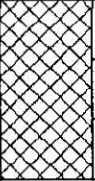

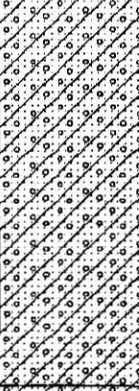
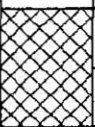

			Boring Log				Boring No.: B-24	
			Site:				Date Begin: 03/08/2001	
			900 West 18th Street Chicago, Illinois				Date End: 03/08/2001	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
14	50%		3	Concrete		Concrete	No visual No odor	
				Fill		Crushed limestone FILL Loose, Moist		
14	80%		6	Fill		Black sand with gravel and cinders Dense, Moist	No visual Slight odor	
				SM		Tan well-sorted medium-grained silty SAND Dense, Damp to wet		
48	50%		9	CL		Gray silty CLAY with some fine-grained sand Firm, Moist	No visual No odor	
			12			Boring terminated at 12 feet		
10	50%		15					
			18					





Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vrhovac
	Geologist:	C. Simpson
	LUST Incident No:	NA

Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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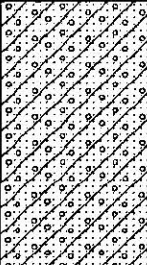
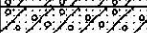

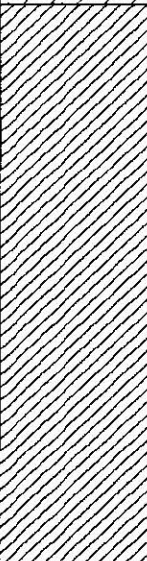

			Boring Log				Boring No.: B-25	
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/09/2001 Date End: 03/09/2001	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
28	50%		3	Concrete		Concrete	No visual No odor	
19	70%		6	Fill		Crushed limestone FILL Loose, Moist		
22	95%		9	SP		Brown poorly-sorted fine-coarse SAND with gravel Dense, Wet		
17	95%		12	OL		Gray silty CLAY with some fine-grained sand and trace organics Soft, Wet Stiff at 11.5'-12'		
			15			Boring terminated at 12 feet		
			18					
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200 Driller: Bob Tirjer Geologist: C. Simpson LUST Incident No: NA		
Water Depth While Drilling: 7'				Water Depth After Drilling: NA		Project Number: 00868D		Page 1

			Boring Log				Boring No.: B-26
			Site:				Date Begin: 03/09/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/09/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
15	85%		3	Concrete		Concrete	No visual No odor
10	85%		6	GW		Pea gravel Loose, Moist Wet at 3'-9'	
3	90%		9			Obstruction at 9 feet	
			12				
			15				
			18				
Completion Notes:						Drill Rig:	SIMCO EarthProbe 200
						Driller:	Bob Tirjer
						Geologist:	C. Simpson
						LUST Incident No:	NA
Water Depth While Drilling: 3'				Water Depth After Drilling: NA		Project Number: 00868D	Page 1



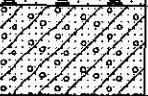

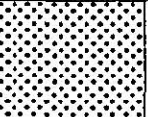
			Boring Log				Boring No.: B-27
			Site:				Date Begin: 03/09/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/09/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
17	70%		3	Concrete		Concrete	No visual No odor
20	80%			Fill		Crushed limestone FILL Loose, Moist Wet at 3-7'	
15	85%		6	Fill		Bricks, sandy clay and gravel FILL	
			9			Obstruction at 8 feet	
			12				
			15				
			18				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig:	SIMCO EarthProbe 200
						Driller:	Bob Tirjer
						Geologist:	C. Simpson
						LUST Incident No:	NA
Water Depth While Drilling: 3'		Water Depth After Drilling: NA		Project Number: 00868D		Page 1	

			Boring Log				Boring No.: B-28
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/09/2001 Date End: 03/09/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
12	40%		3	Concrete		Concrete	No visual No odor
11	80%		6	Fill		Crushed limestone, bricks and gravel FILL Loose, Moist	
12	80%		9	Fill		Crushed limestone, bricks, gravel and black fine-coarse sand Loose, Wet	
			12			Boring terminated at 9 feet	
			15				
			18				

Completion Notes:	Drill Rig:	SIMCO EarthProbe 200	
	Driller:	Bob Tirjer	
	Geologist:	C. Simpson	
	LUST Incident No:	NA	
Water Depth While Drilling: 7'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1



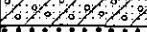
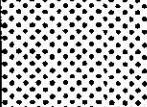
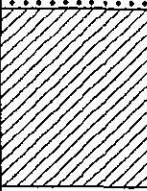
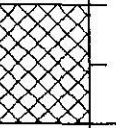
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			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/09/2001 Date End: 03/09/2001	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
4.6	70%		3	Concrete		Concrete	No visual No odor	
				Fill		Crushed limestone FILL Loose, Moist		
12	80%			Fill			Sheen Slight odor	
			6			Dark gray medium-grained Sand and Gravel		
8	90%		9			Gray silty CLAY with some fine-grained sand Soft, Wet Stiff at 9-10'		
				CL				
11	95%		12				No visual No odor	
7	90%		15			Boring terminated at 15 feet		
			18					

Completion Notes: Hatched pattern denotes sample analyzed.		Drill Rig: SIMCO EarthProbe 200	
		Driller: Bob Tirjer	
		Geologist: C. Simpson	
		LUST Incident No: NA	
Water Depth While Drilling:- Water Depth After Drilling: NA		Project Number: 00868D Page 1	

			Boring Log				Boring No.: B-30
			Site:				Date Begin: 03/12/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
6	80%			Concrete		Concrete	No visual No odor
				Fill		Crushed limestone FILL Loose, Moist	
6	80%		3	SW		Black and tan well-sorted fine-grained SAND Dense, Wet	
						Refusal at 4 feet	
			6				
			9				
			12				
			15				
			18				




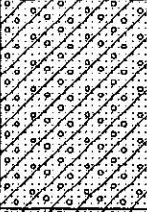
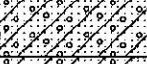
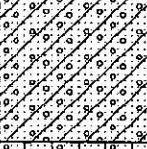
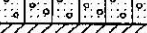


Completion Notes: Hatched pattern denotes sample analyzed. Boring located in basement.	Drill Rig:	Hand Geoprobe
	Driller:	Jim Mizwicki
	Geologist:	C. Simpson
	LUST Incident No:	NA

Water Depth While Drilling: 3'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-31
			Site:				Date Begin: 03/12/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	80%			Concrete		Concrete	No visual No odor
				Fill		Crushed limestone FILL	
				SW		Loose, Moist Black well-sorted fine-grained SAND	
			3			Dense, Moist	
<1	80%					Gray silty CLAY with trace fine-grained sand	No visual No odor
				CL		Firm, Moist	
20	80%		6			Boring terminated at 6 feet	
			9				
			12				
			15				
			18				




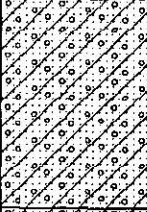
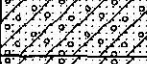


Completion Notes: Hatched pattern denotes sample analyzed. Boring located in basement.	Drill Rig:	Hand Geoprobe
	Driller:	Jim Mizwicki
	Geologist:	C. Simpson
	LUST Incident No:	NA

Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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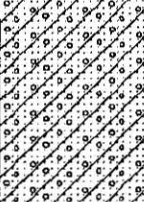
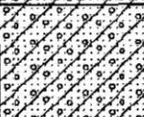
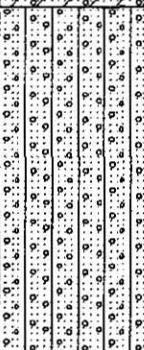



			Boring Log				Boring No.: B-32	
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/12/2001 Date End: 03/12/2001	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
15	80%		3	Concrete		Concrete	No visual No odor	
				Fill		Crushed limestone FILL Loose, Moist		
18	85%		6	Fill		Crushed bricks FILL Loose, Moist		
				SC		Black clayey SAND grading to black sandy CLAY Firm, Moist		
19	90%		9	SM		Brown well-sorted fine to medium-grained silty SAND Dense, Wet		
				CL		Brown sandy CLAY Soft, Wet		
7	90%		12	Boring terminated at 12 feet				
				15				
				18				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Bob Tirjer
	Geologist:	C. Simpson
	LUST Incident No:	NA

Water Depth While Drilling: 7.5'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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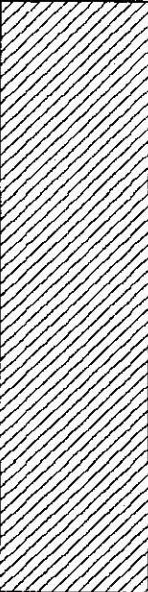
			Boring Log				Boring No.: B-33
			Site:				Date Begin: 03/12/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
6	80%		3	Concrete		Concrete	No visual No odor
				Fill		Crushed limestone FILL Loose, Damp	
10	80%			Fill		Crushed bricks FILL Loose, Moist	
15	80%		6	SC		Brown well-sorted fine-grained clayey SAND Dense, Damp to wet Wet at 6'-12'	
			9				
12	80%		12			Boring terminated at 12 feet	
			15				
			18				




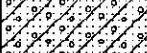
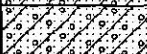
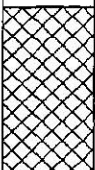
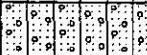
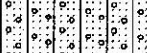
Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200	
	Driller:	Bob Tirjer	
	Geologist:	C. Simpson	
	LUST Incident No:	NA	
Water Depth While Drilling: 6'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-34
			Site:				Date Begin: 03/12/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	85%		3	Asphalt		ASPHALT	No visual No odor
				Fill		Crushed limestone FILL Loose, Damp	
<1	90%		6	Fill		Black sand, cinders, bricks and gravel FILL Loose, Moist	
				SC		Brown well-sorted, fine-grained clayey SAND Dense, Damp to wet Wet at 6'-7'	
<1	95%		9	SM		Tan well-sorted fine-grained silty SAND Medium dense, Wet	
<1	85%		12			Gray silty CLAY with trace fine-grained sand Firm, Moist	
<1	80%		15				
<1	75%		18				


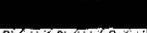
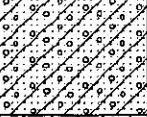
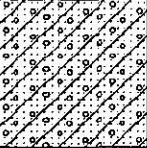
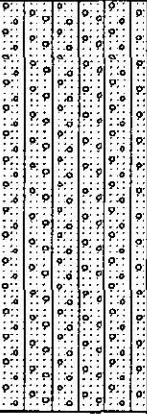
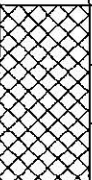
Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Bob Tirjer
	Geologist:	C. Simpson
	LUST Incident No:	NA

Water Depth While Drilling: 6'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-34	
							Date Begin: 03/12/2001	
			Site: 900 West 18th Street Chicago, Illinois				Date End: 03/12/2001	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
			21	CL				
			24					
			27					
			30					
						Boring terminated at 30 feet		
			33					
			36					
			39					
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200		
						Driller: Bob Tirjer		
						Geologist: C. Simpson		
						LUST Incident No: NA		
Water Depth While Drilling: 6'			Water Depth After Drilling: NA			Project Number: 00868D	Page 2	


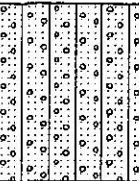
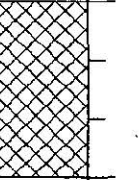
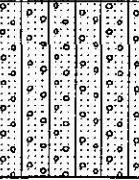
			Boring Log				Boring No.: B-35
			Site:				Date Begin: 03/12/2001
			900 West 18th Street Chicago, Illinois				Date End: 03/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	85%		3	Asphalt		ASPHALT overlying concrete	No visual No odor
				Fill		Crushed limestone FILL Loose, Moist	
				Fill		Black sand, cinders, bricks and gravel FILL Loose, Moist	
<1	90%		6	SM		Brown well-sorted fine-grained silty SAND Dense, Damp	
<1	90%		9			Boring terminated at 9 feet	
			12				
			15				
			18				


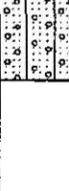
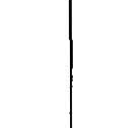
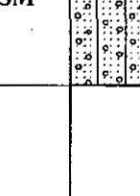
Completion Notes: Hatched patterns denote sample analyzed.	Drill Rig:	SIMCO EarthProbe 200	
	Driller:	Bob Tirjer	
	Geologist:	C. Simpson	
	LUST Incident No:	NA	
Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868D	Page 1


			Boring Log				Boring No.: B-36
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 03/15/2001 Date End: 03/15/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	70%		3	Asphalt		ASPHALT	No visual No odor
				Fill		Crushed limestone FILL Loose, Moist	
<1	50%		6	Fill		Black sand, cinders, bricks and gravel FILL Loose, Moist	
				SM		Tan well-sorted fine-grained silty SAND Medium dense, Wet	
<1	90%		9				
<1	90%		12			Boring terminated at 12 feet	
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vhrovac
	Geologist:	J. Mizwicki
	LUST Incident No:	NA


Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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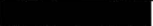
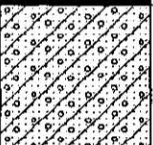
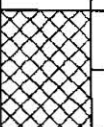

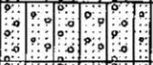
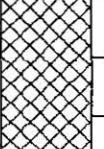
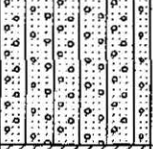


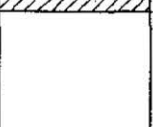
			Boring Log				Boring No.: B-37
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 04/12/2001 Date End: 04/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
-	0%					No recovery	No visual Petroleum odor No visual No odor
6	90%		3	SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
4	100%		6	SM		Brown well-sorted fine-grained silty SAND Loose, Wet	
			9			Boring terminated at 9 feet	
			12				
			15				
			18				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig:	SIMCO EarthProbe 200
						Driller:	Predrag Vhrovac
						Geologist:	J. Mizwicki
						LUST Incident No:	NA
Water Depth While Drilling:-		Water Depth After Drilling: NA		Project Number: 00868D		Page 1	

			Boring Log				Boring No.: B-38
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 04/12/2001
							Date End: 04/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
-	0%					No recovery	No visual No odor
15	80%		3	SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
5	90%		6	SM		Brown well-sorted fine-grained silty SAND Loose, Wet	
			9			Boring terminated at 9 feet	
			12				
			15				
			18				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200	
						Driller: Predrag Vhrovac	
						Geologist: J. Mizwicki	
						LUST Incident No: NA	
Water Depth While Drilling: 6.5'				Water Depth After Drilling: NA		Project Number: 00868D	Page 1



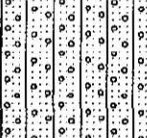

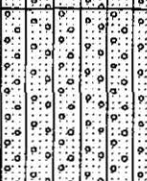
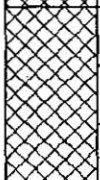
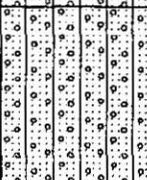
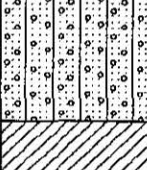

			Boring Log				Boring No.: B-39
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 04/12/2001
							Date End: 04/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
				Asphalt		ASPHALT with gravel base	No visual No odor
9	50%					Gray and black well-sorted fine-grained silty SAND and some fine to medium-grained gravel Loose, Moist	
404	90%		3	SM			
			6			Brown well-sorted fine-grained silty SAND Loose, Moist Wet at 6'-10'	
1	100%		9	SM			
2	100%		12	CL		Gray and brown silty CLAY Soft, Wet Medium firm at 11'-12'	
			15			Boring terminated at 12 feet	
			18				

Completion Notes: Hatched pattern denotes sample analyzed.		Drill Rig:	SIMCO EarthProbe 200
		Driller:	Predrag Vhrovac
		Geologist:	J. Mizwicki
		LUST Incident No: NA	
Water Depth While Drilling: 6'		Water Depth After Drilling: NA	
Project Number: 00868D		Page 1	

			Boring Log				Boring No.: B-40
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 04/12/2001
							Date End: 04/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
				Asphalt		ASPHALT with gravel base	
1	70%			SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
83	90%		3	SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
			6				
29	100%			SM		Brown well-sorted fine-grained silty SAND Loose, Wet	
			9				
6	90%			CL		Gray and brown silty CLAY Soft, Wet	
			12			Boring terminated at 12 feet	
			15				
			18				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200	
						Driller: Predrag Vhrovac	
						Geologist: J. Mizwicki	
						LUST Incident No: NA	
Water Depth While Drilling: 6'			Water Depth After Drilling: NA			Project Number: 00868D	Page 1




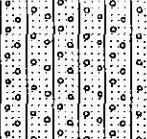

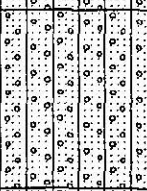
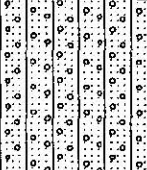

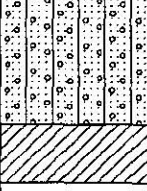
			Boring Log				Boring No.: B-41
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 04/12/2001
							Date End: 04/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
2	50%			Asphalt		ASPHALT with gravel base	No visual No odor
						Bricks and cinders with some black silty sand FILL Loose, Moist	
92	90%		3	Fill			
						Gray and black well-sorted fine-grained silty SAND Loose, Moist	
28	90%		6	SM		Brown well-sorted fine-grained silty SAND Loose, Wet	
							
			9	SM		Gray and brown silty CLAY Soft, Wet Firm at 11'-12'	
11	90%			CL			
			12			Boring terminated at 12 feet	
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200	
	Driller:	Predrag Vhrovac	
	Geologist:	J. Mizwicki	
	LUST Incident No:	NA	
Water Depth While Drilling: 7'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1


			Boring Log				Boring No.: B-42
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 04/12/2001 Date End: 04/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
5	50%			Asphalt		ASPHALT with gravel base	No visual No odor
				SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
138	90%		3	SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
48	90%		6	SM		Brown well-sorted fine-grained silty SAND Loose, Wet	
			9	SM			
11	90%			CL		Gray and brown silty CLAY Firm, Wet	
			12			Boring terminated at 12 feet	
			15				
			18				



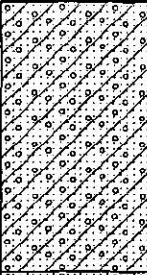
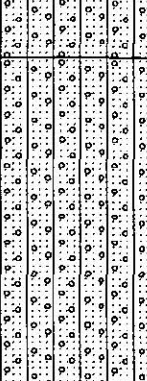

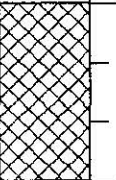


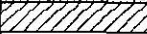
Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vhrovac
	Geologist:	J. Mizwicki
	LUST Incident No:	NA

Water Depth While Drilling: 6.5'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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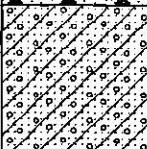
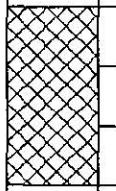
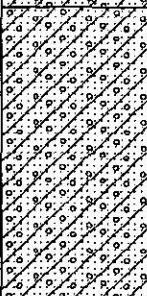
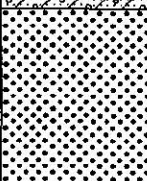

			Boring Log				Boring No.: B-43
			Site:				Date Begin: 04/12/2001
			900 West 18th Street Chicago, Illinois				Date End: 04/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
3	75%		3	Asphalt		ASPHALT with gravel base	No visual No odor
				SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
7	90%		6	SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
11	90%			SM		Brown well-sorted fine-grained silty SAND Loose, Wet	
4	90%		9	SM			
			12			Boring terminated at 12 feet	
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vhrovac
	Geologist:	J. Mizwicki
	LUST Incident No:	NA
Water Depth While Drilling:-	Water Depth After Drilling: NA	Project Number: 00868D
		Page 1

			Boring Log				Boring No.: B-44	
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 04/12/2001 Date End: 04/12/2001	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
<1	75%		3	Asphalt		ASPHALT with gravel base	No visual No odor	
				Fill		Bricks and cinders Dry		
<1	100%							
			6	SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist		
22	90%		9	SM		Brown and black well-sorted fine-grained silty SAND Loose, Moist		
1	75%		12	CL		Gray silty CLAY Soft, Wet Medium firm at 11.5'-12'		
			15					
			18			Boring terminated at 12 feet		
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200		
						Driller: Predrag Vhrovac		
						Geologist: J. Mizwicki		
						LUST Incident No: NA		
Water Depth While Drilling: 10'				Water Depth After Drilling: NA		Project Number: 00868D		Page 1

			Boring Log				Boring No.: B-45
			Site:				Date Begin: 04/12/2001
			900 West 18th Street Chicago, Illinois				Date End: 04/12/2001
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	75%			Asphalt		ASPHALT with gravel base	No visual No odor
						Bricks and cinders Dry	
<1	100%		3	Fill			
				SM		Gray and black well-sorted fine-grained silty SAND Loose, Moist	
11	90%		6			Brown and black well-sorted fine-grained silty SAND Loose, Moist	
			9	SM			
10	75%						
			12	CL		Gray silty CLAY Soft, Wet Boring terminated at 12 feet	
			15				
			18				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vhrovac
	Geologist:	J. Mizwicki
	LUST Incident No:	NA
Water Depth While Drilling: 11.5' Water Depth After Drilling: NA		Project Number: 00868D Page 1

			Boring Log				Boring No.: B-46
			Site:				Date Begin: 5/10/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/10/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
2	60%			Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
1	75%		3				
			6	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	
10	100%						
			9	SW		Black and tan well-sorted medium-grained SAND Dense, Wet	No visual, No odor
11	100%						
			12	CL		Brown and gray silty CLAY with trace fine-grained sand Firm, Moist	
						Boring terminated @ 12'	
			15				
			18				

Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig: SIMCO Earthprobe 200	
	Driller: Predrag Vrhovac	
	Geologist: Jim Mizwicki	
	LUST Incident No: NA	
Water Depth While Drilling: 9'		Water Depth After Drilling: NA
Project Number: 00868D		Page 1



Boring Log

Boring No.: B-47




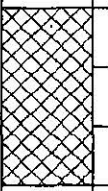
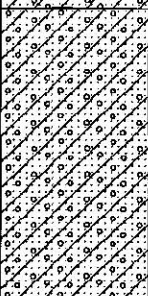
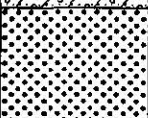
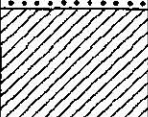
Site:

900 W. 18th Street
Chicago, Illinois



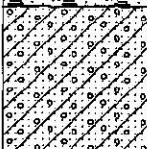

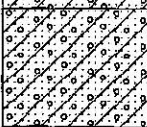
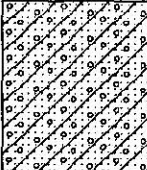
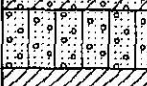
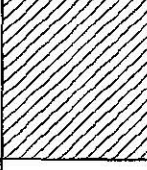
Date Begin: 5/10/01




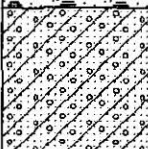
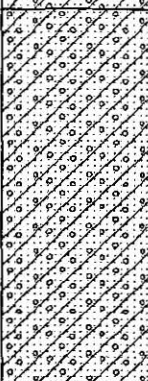


Date End: 5/10/01

FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
2	50%		3	Concrete		Concrete	
				Fill		Crushed limestone FILL Loose, Moist	
5	100%		6	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	No visual, No odor
17	100%		9	SW		Black and tan well-sorted medium-grained SAND Dense, Wet	
11	80%		12	CL		Brown and gray silty CLAY with trace fine-grained sand Firm, Moist	No visual, No odor
			12			Boring terminated @ 12'	
			15				
			18				
Completion Notes: Hatch pattern denotes sample analyzed.						Drill Rig: SIMCO Earthprobe 200	
						Driller: Predrag Vrhovac	
						Geologist: Jim Mizwicki	
						LUST Incident No: NA	
Water Depth While Drilling: 9'		Water Depth After Drilling: NA		Project Number: 00868D		Page	1

			Boring Log				Boring No.: B-48
			Site:				Date Begin: 5/10/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/10/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
6	60%			Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
4	75%		3			Crushed limestone FILL and black to medium-tan sand Loose, Moist	
			6	Fill			
14	100%						
			9	SW		Black and tan well-sorted medium-grained SAND Dense, Wet	No visual, No odor
25	80%			CL		Brown and gray silty CLAY with trace fine-grained sand Firm, Moist	
			12			Boring terminated @ 12'	
			15				
			18				




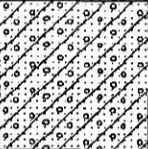

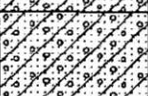
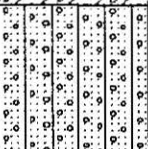

Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig:	SIMCO Earthprobe 200	
	Driller:	Predrag Vrhovac	
	Geologist:	Jim Mizwicki	
	LUST Incident No:	NA	
Water Depth While Drilling: 9'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-49
			Site:				Date Begin: 5/10/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/10/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
6	75%			Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
13	75%		3	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	
29	100%		6	SC		Black clayey SAND grading to black sandy CLAY Firm, Moist	
			9	SM		Brown well-sorted medium-grained SAND Dense, Wet	
15	100%			CL		Brown and gray sandy CLAY with trace fine-grained sand Firm, Wet	No visual, No odor
			12			Boring terminated @ 12'	
			15				
			18				
Completion Notes: Hatch pattern denotes sample analyzed.						Drill Rig: SIMCO Earthprobe 200	
						Driller: Predrag Vrhovac	
						Geologist: Jim Mizwicki	
						LUST Incident No: NA	
Water Depth While Drilling: 8'				Water Depth After Drilling: NA		Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-50
			Site:				Date Begin: 5/10/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/10/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
7	100%			Concrete		Concrete	No visual, No odor
			Fill		Crushed limestone FILL Loose, Moist		
7	100%		3	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	
			6				
12	100%		9				
12	100%		SW		Black and tan well-sorted medium-grained SAND Dense, Wet	No visual, No odor	
		12	CL		Brown and gray silty CLAY with trace fine-grained sand Firm, Moist		
					Boring terminated @ 12'		
			15				
			18				






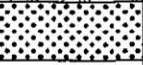
Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig:	SIMCO Earthprobe 200
	Driller:	Predrag Vrhovac
	Geologist:	Jim Mizwicki
	LUST Incident No:	NA

Water Depth While Drilling: 8'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-51
			Site:				Date Begin: 5/10/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/10/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
10	90%		3	Concrete		Concrete	No visual, No odor
	Fill				Crushed limestone FILL Loose, Moist		
8	90%		Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist		
11	100%		SC		Black clayey SAND grading to black sandy CLAY Firm, Moist		
			SM		Brown well-sorted medium-grained SAND Dense, Wet		
9	100%		12	CL		Brown and gray sandy CLAY with trace fine-grained sand Firm, Wet	No visual, No odor
						Boring terminated @ 12'	
			15				
			18				



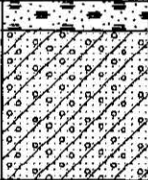
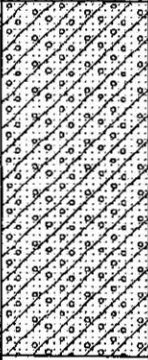
Completion Notes: Hatch patterns denote sample analyzed.	Drill Rig:	SIMCO Earthprobe 200
	Driller:	Predrag Vrhovac
	Geologist:	Jim Mizwicki
	LUST Incident No:	NA

Water Depth While Drilling: 8'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-52
			Site: 900 W. 18th Street Chicago, Illinois				Date Begin: 5/11/01
							Date End: 5/11/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
1	100%		3	Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
12	100%		6	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	No visual, No odor
5	100%		9	SW		Black and tan well-sorted medium-grained SAND Dense, Wet Boring terminated @ 9'	
			12				
			15				
			18				




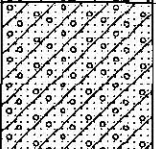
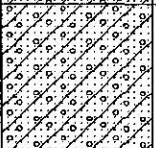
Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig:	SIMCO Earthprobe 200
	Driller:	Predrag Vrhovac
	Geologist:	Jim Mizwicki
	LUST Incident No:	NA




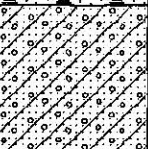
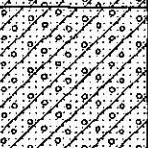
Water Depth While Drilling: 3'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-53
			Site: 900 W. 18th Street Chicago, Illinois				Date Begin: 5/11/01 Date End: 5/11/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	100%		3	Concrete		Concrete	No visual, No odor
	Fill			Crushed limestone FILL Loose, Moist			
	10	100%	6	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	
	30	100%					
		12					
		15					
		18					

Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig:	SIMCO Earthprobe 200
	Driller:	Predrag Vrhovac
	Geologist:	Jim Mizwicki
	LUST Incident No:	NA




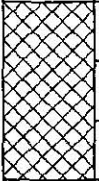
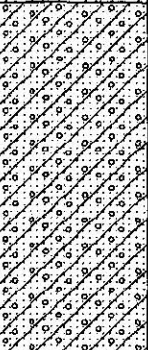
Water Depth While Drilling: 3'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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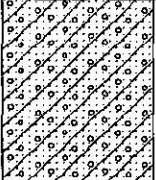
			Boring Log				Boring No.: B-54
			Site:				Date Begin: 5/11/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/11/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
5	100%		3	Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
11	100%		6	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	No visual, No odor
3	100%		9			Boring terminated @ 9'	
			12				
			15				
			18				
Completion Notes: Hatch pattern denotes sample analyzed.						Drill Rig: SIMCO Earthprobe 200	
						Driller: Predrag Vrhovac	
						Geologist: Jim Mizwicki	
						LUST Incident No: NA	
Water Depth While Drilling: 8'		Water Depth After Drilling: NA		Project Number: 00868D		Page	1




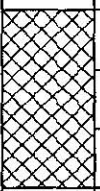
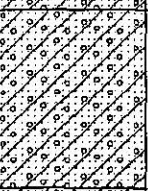


			Boring Log				Boring No.: B-55
			Site:				Date Begin: 5/11/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/11/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
<1	100%		3	Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
<1	100%		6	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	No visual, No odor
13	100%		9			Boring terminated @ 9'	No visual, No odor
			12				
			15				
			18				

Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig:	SIMCO Earthprobe 200
	Driller:	Predrag Vrhovac
	Geologist:	Jim Mizwicki
	LUST Incident No:	NA


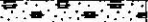
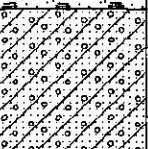
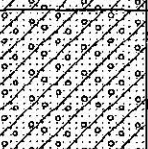


Water Depth While Drilling: 8'	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-56
			Site: 900 W. 18th Street Chicago, Illinois				Date Begin: 5/25/01 Date End: 5/25/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
1	100%			Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
<1	100%		3			Crushed limestone FILL and black to medium-tan sand Loose, Moist	No visual, No odor
			6	Fill			
22	100%		9			Boring terminated @ 9'	
			12				
			15				
			18				
Completion Notes: Hatch pattern denotes sample analyzed.						Drill Rig: SIMCO Earthprobe 200 Driller: Predrag Vrhovac Geologist: Jim Mizwicki LUST Incident No: NA	
Water Depth While Drilling: NA				Water Depth After Drilling: NA		Project Number: 00868D	Page 1




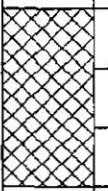
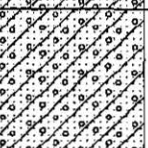
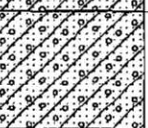
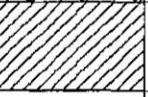
			Boring Log				Boring No.: B-57
			Site:				Date Begin: 5/25/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/25/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
5	80%			Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
7	100%		3			Crushed limestone FILL and black to medium-tan sand Loose, Moist	No visual, No odor
			6	Fill			
4	100%		9			Boring terminated @ 9'	
			12				
			15				
			18				
Completion Notes: Hatch pattern denotes sample analyzed.						Drill Rig:	SIMCO Earthprobe 200
						Driller:	Predrag Vrhovac
						Geologist:	Jim Mizwicki
						LUST Incident No:	NA
Water Depth While Drilling: NA				Water Depth After Drilling: NA		Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-58
			Site:				Date Begin: 5/25/01
			900 W. 18th Street Chicago, Illinois				Date End: 5/25/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
3	100%			Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
6	100%		3	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	
			6	SC		Black clayey SAND grading to black sandy CLAY Firm, Moist	
3	80%			CL		Brown sandy CLAY Soft, Moist	No visual, No odor
			9			Boring terminated @ 9'	
			12				
			15				
			18				



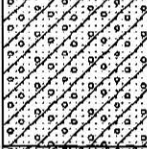

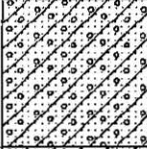
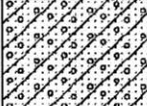

Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig:	SIMCO Earthprobe 200	
	Driller:	Predrag Vrhovac	
	Geologist:	Jim Mizwicki	
	LUST Incident No:	NA	
Water Depth While Drilling: NA	Water Depth After Drilling: NA	Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-59	
			Site:				Date Begin: 5/25/01	
			900 W. 18th Street Chicago, Illinois				Date End: 5/25/01	
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes	
3	50%			Concrete		Concrete	No visual, No odor	
				Fill		Crushed limestone FILL Loose, Moist		
17	100%		3	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	No visual, No odor	
			6	SC		Black clayey SAND grading to black sandy CLAY Firm, Moist		
7	80%			CL		Brown sandy CLAY Soft, Moist	No visual, No odor	
			9			Boring terminated @ 9'		
			12					
			15					
			18					

Completion Notes: Hatch pattern denotes sample analyzed.		Drill Rig: SIMCO Earthprobe 200	
		Driller: Predrag Vrhovac	
		Geologist: Jim Mizwicki	
		LUST Incident No: NA	
Water Depth While Drilling: NA Water Depth After Drilling: NA		Project Number: 00868D	Page 1



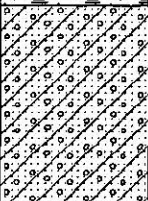
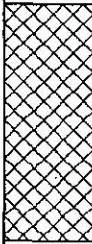
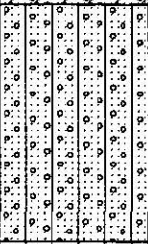
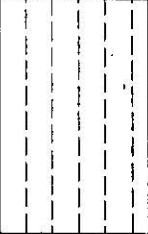
			Boring Log				Boring No.: B-60
			Site:				Date Begin: 06/05/01
			900 W. 18th Street Chicago, Illinois				Date End: 06/05/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
2	75%			Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
5	100%		3	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	
			6	SC		Black clayey SAND grading to black sandy CLAY Firm, Moist	No visual, No odor
27	100%			CL		Brown sandy CLAY Soft, Moist	
			9			Boring terminated @ 9'	
			12				
			15				
			18				




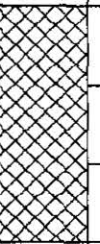
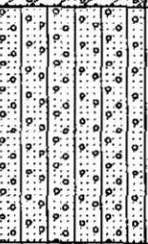

Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig:	SIMCO Earthprobe 200	
	Driller:	Predrag Vrhovac	
	Geologist:	Jim Mizwicki	
	LUST Incident No:	NA	
Water Depth While Drilling: NA	Water Depth After Drilling: NA	Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-61
			Site: 900 W. 18th Street Chicago, Illinois				Date Begin: 06/05/01
							Date End: 06/05/01
FID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Notes
3	75%			Concrete		Concrete	No visual, No odor
				Fill		Crushed limestone FILL Loose, Moist	
6	100%		3	Fill		Crushed limestone FILL and black to medium-tan sand Loose, Moist	No visual, No odor
			6	SC		Black clayey SAND grading to black sandy CLAY Firm, Moist	
37	100%			CL		Brown sandy CLAY Soft, Moist	
			9			Boring terminated @ 9'	
			12				
			15				
			18				



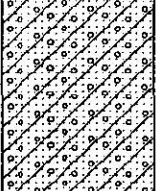

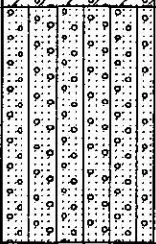
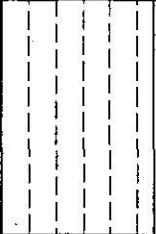
Completion Notes: Hatch pattern denotes sample analyzed.	Drill Rig:	SIMCO Earthprobe 200
	Driller:	Predrag Vrhovac
	Geologist:	Jim Mizwicki
	LUST Incident No:	NA



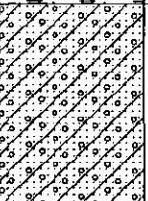

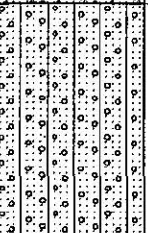

Water Depth While Drilling: NA	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-62
			Site:				Date Begin: 06/05/2001
			900 West 18th Street Chicago, Illinois				Date End: 06/05/2001
FID (ppm)	Sample Recovery	Sample	Depth	Soil Class	Lithology	Description	Notes
3	50%			Concrete		Concrete	No Odor
				Fill		Crushed limestone FILL Loose, Moist	
1	100%		3	SM		Brown silty SAND Loose, Moist	No Visual
4	100%		6	OL		Brown clayey SILT Soft, Moist	
			9			Boring terminated at 9 feet	
			12				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig:	SIMCO EarthProbe 200
						Driller:	Predrag Vhrovac
						Geologist:	J. Mizwicki
						LUST Incident No:	NA
Water Depth While Drilling: NA				Water Depth After Drilling: NA		Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-63
			Site:				Date Begin: 06/05/2001
			900 West 18th Street Chicago, Illinois				Date End: 06/05/2001
FID (ppm)	Sample Recovery	Sample	Depth	Soil Class	Lithology	Description	Notes
1	75%			Concrete		Concrete	No Odor
				Fill		Crushed limestone FILL Loose, Moist	
1	100%		3	SM		Brown silty SAND Loose, Moist	No Visual
			6	OL		Brown clayey SILT Soft, Moist	
4	100%		9			Boring terminated at 9 feet	
			12				




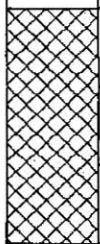
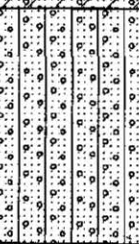
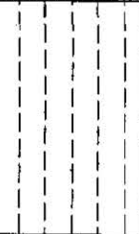
Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200	
	Driller:	Predrag Vhrovac	
	Geologist:	J. Mizwicki	
	LUST Incident No:	NA	
Water Depth While Drilling: NA	Water Depth After Drilling: NA	Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-64
			Site:				Date Begin: 06/05/2001
			900 West 18th Street Chicago, Illinois				Date End: 06/05/2001
FID (ppm)	Sample Recovery	Sample	Depth	Soil Class	Lithology	Description	Notes
1	50%			Concrete		Concrete	No Odor
				Fill		Crushed limestone FILL Loose, Moist	
3	70%		3	SM		Brown silty SAND Loose, Moist	No Visual
			6	OL		Brown clayey SILT Soft, Moist	
2917	100%		9			Boring terminated at 9 feet	
			12				
Completion Notes: Hatched pattern denotes sample analyzed.						Drill Rig: SIMCO EarthProbe 200	
						Driller: Predrag Vhrovac	
						Geologist: J. Mizwicki	
						LUST Incident No: NA	
Water Depth While Drilling: NA				Water Depth After Drilling: NA		Project Number: 00868D	Page 1



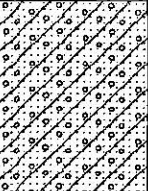

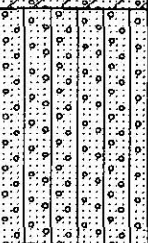
			Boring Log				Boring No.: B-65
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 06/05/2001 Date End: 06/05/2001
FID (ppm)	Sample Recovery	Sample	Depth	Soil Class	Lithology	Description	Notes
1	50%			Concrete		Concrete	No odor No Visual
				Fill		Crushed limestone FILL Loose, Moist	
5	70%		3	SM		Brown silty SAND with some gravel Loose, Moist	
1237	100%		6	OL		Brown clayey SILT Soft, Moist	Strong Petroleum odor
			9			Boring terminated at 9 feet	
			12				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200
	Driller:	Predrag Vhrovac
	Geologist:	J. Mizwicki
	LUST Incident No:	NA

Water Depth While Drilling: NA	Water Depth After Drilling: NA	Project Number: 00868D	Page 1
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			Boring Log				Boring No.: B-66
			Site: 900 West 18th Street Chicago, Illinois				Date Begin: 06/05/2001 Date End: 06/05/2001
FID (ppm)	Sample Recovery	Sample	Depth	Soil Class	Lithology	Description	Notes
4	75%			Concrete		Concrete	No odor No Visual
				Fill		Crushed limestone FILL Loose, Moist	
20	100%		3	SM		Brown silty SAND with some gravel Loose, Moist	Strong petroleum odor
5554	100%		6	OL		Brown clayey SILT Soft, Moist	
			9			Boring terminated at 9 feet	
			12				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200	
	Driller:	Predrag Vhrovac	
	Geologist:	J. Mizwicki	
	LUST Incident No:	NA	
Water Depth While Drilling: NA	Water Depth After Drilling: NA	Project Number: 00868D	Page 1

			Boring Log				Boring No.: B-67
			Site:				Date Begin: 06/05/2001
			900 West 18th Street Chicago, Illinois				Date End: 06/05/2001
FID (ppm)	Sample Recovery	Sample	Depth	Soil Class	Lithology	Description	Notes
1	75%			Concrete		Concrete	No odor
				Fill		Crushed limestone FILL Loose, Moist	
4	100%		3	SM		Brown silty SAND with some gravel Loose, Moist	No Visual
			6			Boring terminated at 6 feet	
			9				
			12				

Completion Notes: Hatched pattern denotes sample analyzed.	Drill Rig:	SIMCO EarthProbe 200	
	Driller:	Predrag Vhrovac	
	Geologist:	J. Mizwicki	
	LUST Incident No:	NA	
Water Depth While Drilling: NA	Water Depth After Drilling: NA	Project Number: 00868D	Page 1



PIONEER
ENVIRONMENTAL, INC.
1000 North Halsted Chicago, Illinois 60622

Groundwater Monitoring Well Completion Report

Site:

900 West 18th Street
Chicago, Illinois

Groundwater Monitoring Well ID:

MW-1

Project Number:	00868D	Top of Inner Casing:	99.69
Geologist:	C. Simpson	Ground elevation:	NA
Date Drilled:	03/09/2001	Total Depth of Borehole	15'
Borehole Diameter:	8.25"	Depth to Water:	5'

Soil Description	Soil Class	Graphic Log	FID	Depth	Well Completion Detail	Annulus Material
Concrete	Concrete					Flush mount well cover with concrete vault
Crushed limestone FILL Loose, Moist	Fill		4			Medium bentonite
Gray medium-grained sandy CLAY Soft, Moist	CL			5		
Brown medium-coarse silty SAND Loose, Wet	SM		17			
Gray medium-grained sandy CLAY Soft, Wet	CL			10		#5 Quartz sand
			7			
				15		
Boring terminated at 15'						

Notes: Well constructed using 2" Schedule 80 PVC casing and 2" .010" slot PVC riser.



1000 North Halsted Chicago, Illinois 60622

Groundwater Monitoring Well Completion Report

Site:

900 West 18th Street
Chicago, Illinois

Groundwater Monitoring Well ID:

MW-2

Project Number: 00868D

Top of Inner Casing: 101.13

Geologist: C. Simpson

Ground elevation: NA

Date Drilled: 03/09/2001

Total Deph of Borehole 15'

Borehole Diameter: 8.25"

Depth to Water: 6'

Soil Description	Soil Class	Graphic Log	FID	Depth	Well Completion Detail	Annulus Material
Concrete	Concrete					Flush mount well cover with concrete vault
Crushed limestone FILL Loose, Moist	Fill		<1			Medium bentonite
Gray medium-grained sandy CLAY Soft, Moist	CL			5		
Brown medium-coarse silty SAND Loose, Wet	SM		<1			
Gray medium-grained sandy CLAY Soft, Wet	CL		<1	10		#5 Quartz sand
Boring terminated at 15'				15		

Notes: Well constructed using 2" Schedule 80 PVC casing and 2" .010" slot PVC riser.



1000 North Halsted Chicago, Illinois 60622

Groundwater Monitoring Well Completion Report

Site:

900 West 18th Street
Chicago, Illinois

Groundwater Monitoring Well ID:

MW-3

Project Number:	00868D	Top of Inner Casing:	99.7
Geologist:	C. Simpson	Ground elevation:	NA
Date Drilled:	03/09/2001	Total Depth of Borehole	15'
Borehole Diameter:	8.25"	Depth to Water:	5'

Soil Description	Soil Class	Graphic Log	FID	Depth	Well Completion Detail	Annulus Material
Concrete	Concrete					Flush mount well cover with concrete vault
Crushed limestone FILL Loose, Moist	Fill		<1			Medium bentonite
Gray medium-grained sandy CLAY Soft, Moist	CL			5		
Brown medium-coarse silty SAND Loose, Wet	SM		<1			
Gray medium-grained sandy CLAY Soft, Wet	CL		<1	10		#5 Quartz sand
Boring terminated at 15'				15		

Notes: Well constructed using 2" Schedule 80 PVC casing and 2" .010" slot PVC riser.



ENVIRONMENTAL, INC.

1000 North Halsted Chicago, Illinois 60622

Groundwater Monitoring Well Completion Report

Site:

900 West 18th Street

Chicago, Illinois

Groundwater Monitoring Well ID:

MW-4

Project Number: 00868D

Top of Inner Casing: 98.5

Geologist: C. Simpson

Ground elevation: NA

Date Drilled: 03/09/2001

Total Depth of Borehole 15'

Borehole Diameter: 8.25"

Depth to Water: 3'

Soil Description	Soil Class	Graphic Log	FID	Depth	Well Completion Detail	Annulus Material
Concrete	Concrete					Flush mount well cover with concrete vault
Crushed limestone FILL Loose, Moist	Fill		<1			Medium bentonite
			5			
			3.2			
Gray medium-grained sandy CLAY Soft, Wet	CL		10			#5 Quartz sand
			17			
Boring terminated at 15'			15			

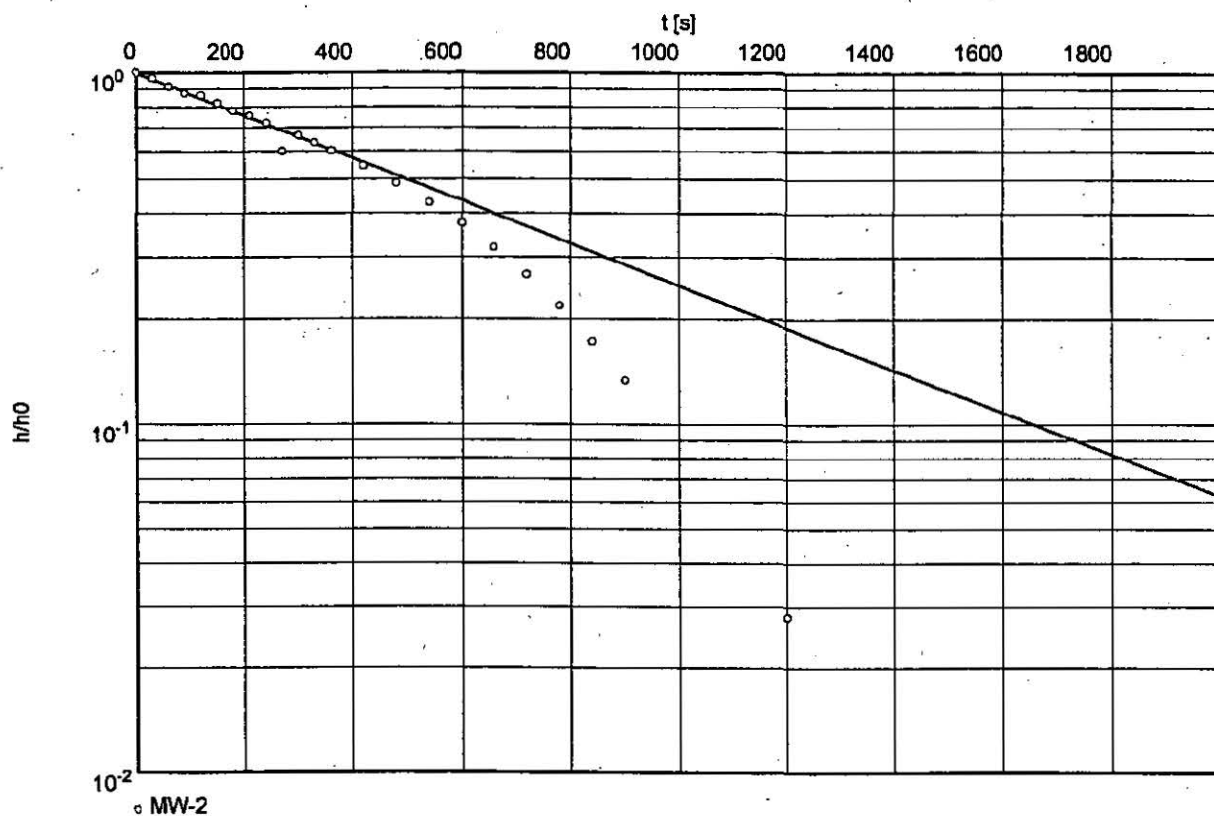
Notes: Well constructed using 2" Schedule 80 PVC casing and 2" .010" slot PVC riser.

APPENDIX F:

SLUG TEST DATA

Pioneer Environmental, Inc. 1000 N. Halsted Chicago, Illinois (312) 587-1021	slug/bail test analysis BOUWER-RICE's method	Page 1
		Project: 900 W. 18th Street
		Evaluated by: C. Simpson

Slug Test No. Bail Down	Test conducted on: 3-15-01
MW-2	



Hydraulic conductivity [cm/s]: 3.75×10^{-5}

